

# Curriculum Vitaé

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## Profile Summary:

- A result-oriented professional with **12 Years and 8 Months** experience in executing full life-cycle development projects, **Agile** Methodology, ramping-up projects within time & best practice guidelines
- Insightful knowledge in **AI/ML (Computer Vision, NLP (ChatBot), Analytics), JAVA-SpringBoot, Python-Django-Flask, Golang, Ruby on Rails, Cloud, SQL, Git, Web servers** etc.
- Managing **large and complex projects or multiple components** of a large projects involving more than one company's product/ services
- **MS in Machine Learning & AI**
- Have valid visa for **US (B1/B2)** and **Japan**

## Employment Details:

- Working as **Associate Engineering Manager** at **Rakuten** since June, 2018 to Present.
- Worked as **Senior Programmer** at **FireEye** from May 2016 to Jun 2018. (Experience: 2 Years and 1 Month )
- Worked as **Team Lead/Senior Software Engineer** at **Foradian Technologies Pvt. Ltd.** from June, 2011 to May 2016. (Experience: 4 Years and 11 Months )

## Academic Qualifications:

Degree / Certificate	Qualification	Institute	Board / University	Year	% / CGPA
Master	MS (AI & ML)	Liverpool John Moores University	Liverpool John Moores University	2023	55
Post Graduation	PG (AI & ML)	The International Institute of Information Technology, Bangalore	The International Institute of Information Technology	2022	89.67 *CGPA= 8.97/10
Graduation	B.Tech(IT)	Calcutta Institute of Engineering and Management	West Bengal University Of Technology	2011	78.17 *CGPA= 7.96/10
12th	Higher Secondary	Jadavpur N.K. Pal Adarsha Sikshayatan	West Bengal Council Of Higher Secondary Examination	2007	74.4
10th	Secondary	Arambagh High School	West Bengal Board of Secondary	2005	73

## **Trainings / Projects Undertaken:**

- 1. Thesis: The Limits of Translation Quality Estimation with WMT17 Dataset**  
Organization : Liverpool John Moores University  
Duration : 9 Months (January 2023 – October 2023)  
Team size : 2  
Role : Planning, Thesis Writing  
Technology used : AI/ML  
Synopsis : Translation Quality Estimation (QE) has emerged as a crucial component in the machine translation landscape, offering a means to evaluate translation quality without the need for human-generated reference translations.
- 2. Synthetic Data - Generator**  
Organization : Rakuten  
Duration : 6 Months (March 2023 – September 2023)  
Team size : 4  
Role : Planning, Architect.  
Technology used : AI/ML (GAN), FastAPI, StreamLit  
Synopsis : It is an application which can generate data from the sample data input. This helps to QA/DEV/UAT to use as test data.
- 3. Digital Employee Management Tool**  
Organization : Rakuten  
Duration : 3 Years and 3 Months (September 2020 – Present)  
Team size : 8  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman, React (UI)  
Synopsis : It helps to integrate all internal business processes integrated in one platform, so that any onboarding and offboarding process will be smooth.
- 4. Employee Journey Portal**  
Organization : Rakuten  
Duration : 1 Year and 3 Months (September 2022 – Present)  
Team size : 8  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), Python, MySQL, API Swagger, Postman, React (UI)  
Synopsis : This application helps smooth onboarding of a new employee.
- 5. License Management Platform**  
Organization : Rakuten  
Duration : 1 Year and 4 Months (August 2022 – Present)  
Team size : 6  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman  
Synopsis : It helps to manage the License and analyse the active user statistics.
- 6. Standarize Operation Analytics**  
Organization : Rakuten  
Duration : 5 Months (July 2023 – Present)  
Team size : 8  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman, React (UI)  
Synopsis : It helps to converts data to a common format to enable users to process and analyze it.

- 7. Survey Tool**  
Organization : Rakuten  
Duration : 1 Month (September 2022 – November 2022)  
Team size : 3  
Role : Architect  
Technology used : Python (Django), MySQL, API Swagger, Postman  
Synopsis : Internal tool to capture Survey. Challenging part was data encryption, key rotation etc.
- 8. Enroll Me Tool**  
Organization : Rakuten  
Duration : 1 Year and 4 Months (January 2021 – May 2022)  
Team size : 3  
Role : Planning, SDS, Development.  
Technology used : ASP.NET, Bootstrap, Javascript, Azure  
Synopsis : This tool helps users to enroll to events, There features like enrollment, waitlisted. People get reminders about the upcoming events.
- 9. Annotation Tool**  
Organization : Rakuten  
Duration : 8 Months (January 2020 – September 2020)  
Team size : 4  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman, React (UI)  
Synopsis : This tool helps to user to annotate product information, which was evaluated in ML/knowledge graph
- 10. Product Editor**  
Organization : Rakuten  
Duration : 1 Year and 2 Months (July 2019 – September 2020)  
Team size : 4  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman, React (UI)  
Synopsis : This tool helps to edit product information. Using this tool, you can search for a product and edit it. You can also link/delink items from a product.
- 11. DEV-OPS Activities**  
Organization : Rakuten  
Duration : 4 Years and 5 Months (August 2019 – Present)  
Team size : 4  
Role : Planning, Architect.  
Technology used : GCP, Shell Script, Networking, Auto Scalable VMs, LB, Rakuten Cloud, Azure, Docker, K8s  
Synopsis : Implemented automated deployment process with GCP bucket, GCP instances. Also migrated existing projects to GCP instance groups, which is auto scalable. We enabled monitoring and alerting systems as well. Also having experiance in internal Rakuten Cloud.
- 12. Authorization and Authentication Service for Org**  
Organization : Rakuten  
Duration : 1 Year and 5 Months (April 2019 – September 2020)  
Team size : 2  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman  
Synopsis : This is a global A&A service for org. This service provides you a more granular level of authorization. We can assign permission to the user, based on partner, application wise. This is highly scalable.

- 13. Audience Insights**  
Organization : Rakuten  
Duration : 8 Months (April 2019 – November 2019)  
Team size : 3  
Role : Planning, Architect, SDS, Development.  
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman  
Synopsis : This is a Dashboard for eCommerce audiences to track their activities.
- 14. Brand Management Tool Migration**  
Organization : Rakuten  
Duration : 5 Months (November 2018 – March 2019)  
Team size : 2  
Role : Planning, Architect, SDS, Development.  
Technology used : Ryby On Rails, MySQL, ELK, Memcached, Api Swagger, Postman  
Synopsis : Brand Management Tool is to keep the brand information. In an eCommerce company, Brand is an important attribute. As a part of this migration project, we decoupled the brand management tool from a Rails code base. We also added some new functionalities as business requirements.
- 15. Go Lang code Migration**  
Organization : Rakuten  
Duration : 2 Months (June 2018 – September 2018)  
Team size : 2  
Role : Planning, Architect, SDS, Development.  
Technology used : Go Lang (Go-KIT), Postgres, Redis, Api Swagger, Postman  
Synopsis : We have a Microservice to capture login history related information. This code was in Ruby-Sinatra. The aim is to convert this code into Go-Lang (GoKit).
- 16. Ruby Gem - google\_timeline**  
Organization : Open Source  
Duration : 5 Years and 4 Months (April 2016 – July 2021)  
Technology used : Ruby  
Synopsis : [github.com/surajit16/google\\_timeline](https://github.com/surajit16/google_timeline)
- 17. Licensing Application**  
Organization : Fireeye Cybersecurity Private Limited  
Duration : 2 Years and 1 Month (May 2016 – June 2018)  
Team size : 6  
Role : Planning, SDS, Development.  
Technology used : Ruby on Rails(mvc), PostgreSQL, HTML(5), CSS(3), GIT.  
Synopsis : This application helps to generate License Key for FireEye products. We have exposed a dozen of APIs which are being invoked by other sales applications (i.e. Salesforce, Oracle). We have recently upgraded this application to Rails 4. We do take care of infrastructure as well.
- 18. Document Portal**  
Organization : Fireeye Cybersecurity Private Limited  
Duration : 2 Years and 1 Month (May 2016 – June 2018)  
Team size : 3  
Role : Planning, SDS, Development, Enhancement  
Technology used : Ruby on Rails(mvc), PostgreSQL, HTML(5), CSS(3), GIT.  
Synopsis : This is being used by the client for all FireEye products. We have a mechanism to upload static contents and those file can be accessible through a custom URL.
- 19. Automation**  
Organization : Fireeye Cybersecurity Private Limited  
Technology used : Ruby on Rails(mvc), PostgreSQL, PRTG.  
Synopsis : Automation is the future. Have been continuing a lot of automations in my current organization. i.e. Report Generation, Auto DR start, Rails code deployment etc.

- 20. Infrastructure setup for Middleware application**  
Organization : Fireeye Cybersecurity Private Limited  
Duration : 3 Months (June 2017 – August 2017)  
Team size : 4  
Role : Planning, Package installations  
Technology used : JAVA, Boomi, Zabbix, CentOS, Load Balancer  
Synopsis : This was a system admin works. I took up this responsibility and worked with the Infrastructure Architecture and Boomi Architecture team to set up the environments. We have also built DR plans and the corresponding infrastructures along with it.
- 21. OCSO - One Click Sign On**  
Organization : Open Source  
Duration : 3 Months (June 2016 – September 2016)  
Technology used : Ruby on Rails(mvc), Sqlite3, HTML(5), CSS(3), GIT.  
Synopsis : This is an SSO application, developed using Rails. The application can be used at [ocso.surajitkhan.in](http://ocso.surajitkhan.in).
- 22. Fedena**  
Organization : Foradian Technologies Pvt. Ltd.  
Duration : 4 Years and 11 Months (June 2011 – May 2016)  
Team size : 12  
Role : Planning, SDS, Development.  
Technology used : Ruby on Rails(mvc), MySql, HTML(5), CSS(3), svn, Javascript, JQuery.  
Synopsis : Fedena is a multipurpose school management software and student information system. 3.0.1 is the latest Fedena (will be released soon). In 3.0 version the main changes were the functional flow and UI changes, jquery updated for the entire project. In this version we have optimized on the code complicity also so that users can use Fedena in a more flexible way. Here my main role is, to check code complexity, planning and guiding the junior teammates, and also developed s3 file upload concept in Fedena. Beside that, I was a part of Fedena 2.3, 2.3.1, 2.3.2, 2.3.4, 2.3.5, 3.0 (latest released version) as developer.
- 23. Spinach Networks**  
Duration : 4 Years and 10 Months (August 2010 – May 2015)  
Technology used : Asp.Net(VB), MySQL, HTML(5), CSS(3), Java-script, JQuery.  
Synopsis : This is a social network site. Here we can upload, share and store unlimited files in the cloud. We can play games, upload and share photos, music, and videos. We can make new friends. Online sql editor, book gallery, and lots of applications.
- 24. Fedena API PlayGound**  
Organization : Foradian Technologies Pvt. Ltd.  
Duration : 6 Months (April 2014 – September 2014)  
Team size : 3  
Role : Planning, Architect, SDS, Development.  
Technology used : Ruby on Rails(mvc), MySQL, Cent OS, git.  
Synopsis : We have APIs available in Fedena. Accessing the APIs, third party developers can make applications. We have made the API PlayGround application to guide the developers. Here you can find sample code in HTML/JS, Ruby. We got positive feedback from the third-party developers.  
Furthermore, we got the best Innovation Award for this.
- 25. Fedena Biometric Integration**  
Organization : Foradian Technologies Pvt. Ltd.  
Duration : 8 Months (September 2015 – May 2016)  
Team size : 4  
Role : Planning, Architect, SDS, Development.  
Technology used : Ruby on Rails(mvc), MySQL, Cent OS, git, DotNet, Windows, Visual Basic  
Synopsis : The Biometric Integration application collects student/employee attendance data from the biometric devices. This data is processed by the Biometric web application and then sent to Fedena in frequent intervals to mark the attendance.

**26. Fedena Log Analyzer**

Organization : Foradian Technologies Pvt. Ltd.

Duration : 2 Years and 10 Months (August 2013 – May 2016)

Team size : 2

Role : Planning, Architect, Development

Technology used : Ruby on Rails(mvc), MySQL, HTML(5), CSS(3), Javascript, JQuery, svn.

Synopsis : Its a different project of our organization. This will analyze the Fedena log file. Using this project we can make user reports of a Fedena instance.

**27. Fedena Saas**

Organization : Foradian Technologies Pvt. Ltd.

Duration : 6 Months (November 2012 – April 2013)

Team size : 3

Role : Planning , Development, Bug fixing, Enhancement

Technology used : Ruby on Rails(mvc), MySQL, HTML(5), CSS(3), svn, Javascript.

Synopsis : This is a Fedena multi school based plugin. Using the plugin we can use a Fedena instance as a single school and as a multi school at same time. The basic architecture is we can create a client profile and the client can create schools as per license given. This is one of the successful projects running in foradian server. Here we have 400+ schools.

**28. Algorithm for Mobile Ad-hoc Network Clustering System**

Institute : Calcutta Institute of Engineering and Management

Duration : 1 Year and 1 Month (May 2010 – May 2011)

Team size : 2

Role : Project Developer

Technology used : C

Synopsis : Ad-hoc network is used in military camp, wireless communication. The aim was to make an optimized (distance and cost wise) algorithm.

**29. Website for WBBSE Warehouse Management System**

Institute : Micro Pro.

Duration : 1 Month (July 2010 – August 2010)

Team size : 2

Role : Project Leader/Developer

Technology used : JSP, Oracle, Java Script

Synopsis : It was a sample project of a warehouse management system. Here we have a user login system, based on the user (i.e. customer login, owner login), it will redirect to the corresponding page. If the user is the owner, he can add/edit/destroy the book details, others only can view the records.

**30. Book Finder**

Institute : Calcutta Institute of Engineering and Management

Duration : 3 Months (November 2009 – February 2010)

Team size : 6

Role : Project Leader/Developer

Technology used : VB, Ms-Access

Synopsis : It is a Book Store management system software. Here we have two different sections, the owner can add/update/delete book entries, can view current books status, any new book requested by the customer. On other hand, customers can directly access the book. They can search, buy books. They can also give orders for new books.

**Computer Proficiency:**

- AI/ML (2022 - present)
- Data Science (2022 - present)
- SpringBoot/Java (2018 - present)
- Python (2017 - present)

- Core Java (2008 - present)
- Javascript - JQuery (2010 - present)
- AWS/GCP (2017 - present)
- ASP.NET (MVC) (2021 - 2022)
- Golang/Go-Kit (2018 – 2018)
- Ruby on Rails (2011 – 2018)
- Ruby (2011 - present)
- Nginx, Apache server (2011 - present)
- GIT (2012 - present)
- Linux/ubuntu basics (2010 – present)
- HTML, CSS (2007 - present)

#### **Family Details:**

Details	Name	Occupation
Father	Mr. Rampada Khan	Retired Agricultural Marketing Officer, W.B
Mother	Mrs. Bina Khan	Housewife
Sibling	Mr. Arijit Khan	Assistant Professor, Denmark

#### **Personal Details:**

**Date of Birth** : 10 May, 1990  
**Gender** : Male  
**Languages Known** : Bengali, English, Hindi.