FARDIN ANAM AUNGON

@ fardinanam@gmail.com 📞 +1(585)414-1716 🌐 https://fardinanam.vercel.app in fardin-anam-aungon

 fardinanam 📍 Rochester, NY

SUMMARY

Full-stack Software Engineer with 2.5+ years of experience specializing in building scalable, cloud-native applications using Java Spring Boot, Python, and ReactJS. Currently pursuing an MS in Computer Science at Rochester Institute of Technology (RIT), graduating in July 2027. A fast learner who excels in Agile environments, leads frontend development projects, and seamlessly adapts to new technologies and challenges.

EDUCATION

Bachelor of Science (BSc), Computer Science & Engineering

Bangladesh University of Engineering & Technology

April 2019 – July 2024

Learnt different aspects of computer science through theoretical and sessional courses. Major courses include structured and object oriented programming languages, data structures and algorithms, operating systems, compilers, computer networking, theory of computation, microprocessors, microcontrollers, assembly language, digital logic design, software engineering, artificial intelligence, discrete math, linear algebra, and many more.

CGPA : 3.92/4.0

Master of Science, Computer Science

Rochester Institute of Technology

August 2025 – July 2027 (expected)

Started my masters with distributed system. Want to complete this degree by gathering deeper knowledge in Artificial Intelligence and how we can develop and deploy such AI models and make those available globally with the help of cloud computing.

WORK EXPERIENCE

Software Engineer II   `DevOps` `Java Springboot` `ReactJS` `PostgreSQL` `Azure Kubernetes Service` `Docker`

Pridesys IT Ltd.

November 2023 – July 2025

Contributed to the development of a cloud-based enterprise resource planning (ERP) system. We built its micro-service architecture from the ground up and I was one of the core decision making member of the team. Visit https://beeqube.com to know more about the product. You can also sign-up and visit the webapp to see what I am working on. Responsibilities included:

- Collaborated with the team to research user experience best practices and implement them in the product
- Implemented more than hundred backend APIs using Java Spring Boot and conducted unit tests using Junit and Mockito with more than 98% coverage.
- Developed an interactive UI with real-time features using ReactJS with TypeScript, Tailwind CSS, and Redux Toolkit
- Managed the frontend from inception to refining the user interface of the entire ERP system with a focus on dynamic content rendering and user experience
- Designed 30% of the initial part of the database of the ERP with PostgreSQL while keeping the design open to any database
- Deployed microservices to Azure Kubernetes Service with Docker containers and Helm charts
- Created the website of the accounting app (you can visit the beta site here: https://books.beeqube.com)

Research Assistant   `ReactJS` `Google Maps Api`

Institute of Water And Flood Management, BUET

2022 – August 2024

Worked as a research assistant on a government project to develop a web-based early warning system for river erosion. Responsibilities included developing and maintaining the user interface using ReactJS and integrating it with the Google Maps API to visualize real-time data.

- Developed and maintained the user interface using ReactJS, ensuring usability and responsiveness
- Integrated Google Maps API to visualize real-time river erosion data from geolocation data

- Collaborated with researchers to design a web-based early warning system deployed on Render (prototype available: https://www.ews-re.com/).tps://www.ews-re.com/. The site might be slow because the backend server is still under research and so it is hosted on Render with free plan

RESEARCH EXPERIENCE

Earthquake Early Warning System   Deep Learning   Tensorflow

Supervised by : Dr. Mohammed Eunus Ali

January 2024 – Present

Researched based on a novel deep learning approach, Seismic Contrastive Convolutional Neural Network for highly accurate, on-site seismic intensity prediction using a small portion of initial seismic waveforms received by a single station. This work was the focus of my **undergraduate thesis dissertation**.

- -

Learning to Index 3D Point-Cloud for Efficient Place Recognition   Computer Vision   Deep Learning

Supervised by : Dr. Mohammed Eunus Ali

May 2023 – January 2024

Studied the state-of-the-art papers for recognizing places using partial 3D point cloud data using deep neural networks. Created partial point clouds from the full Oxford Robot Car Dataset to train models like PointNetVLAD and CASSPR, which achieved high accuracy (98%) even with our modified partial dataset. This work showed how deep learning can handle real-world location recognition challenges effectively.

NOTABLE ACADEMIC PROJECTS

SyncInc   Python Django   Django REST   ReactJs   PostgreSQL   MUI   ○ fardinanam/SyncInc

A web-based project and task delegation and management software. Developed using PostgreSQL, Django (backend), ReactJS with Material UI (frontend), Django REST framework (for API development), Firebase's Firestore (file storage), and Django Channels (for real-time notifications). **Emphasis:** Focused on building RESTful APIs for seamless data exchange and implementing real-time features for enhanced user collaboration.

- -

RentaStay   Python Django   Vanilla JavaScript   Oracle Database   ○ fardinanam/RentaStay

A web app to rent and manage houses and apartments. Developed using Oracle database and Django (for backend and server-side rendering), Vanilla JavaScript (for DOM manipulation), and Bootstrap (for styling). **Emphasis:** Designed and implemented the backend architecture using Django, including database design and management with Oracle.

LEADERSHIP EXPERIENCE

Project Lead (discuss.chat) at Pridesys IT Ltd.

April 2025 - July 2025

Leading the development of **discuss.chat**, a team communication platform inspired by Mattermost. My responsibilities include:
- Spearheading architectural decisions and product direction.
- Managing a small distributed team of contributors.
- Designing and developing the frontend using **ReactJS** and **Tailwind CSS**
- Integrating matrix for secure, federated messaging
- Incorporating LiveKit for real-time video/audio communication
- Maintaining the git repository using github actions.

EXPERTISE AND SKILLS

- **Programming Languages:** C/C++, Java, Python, JavaScript, TypeScript, x86 Assembly, SQL, CSS, Bash, HTML5
- **Databases:** Oracle DBMS, PostgreSQL
- **Backend:** Java Spring Boot, Python Django
- **Frontend:** ReactJS, Redux, Tailwind CSS, Vite
- **AI & ML:** PyTorch, Tensorflow
- **Devops:** Git, Github Actions, Docker, Kubernetes
- **Others:** Unity, Git, Wireshark, Bison, Flex, OpenGL, Pygame, Sklearn