

FARDIN ANAM AUNGON

@ fa4111@rit.edu
Rochester, NY

(585) 414-1716

https://fardinanam.vercel.app

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fardinanam

SUMMARY

Full-stack Software Engineer with 2.5+ years of experience in building scalable, cloud-native applications using Java Spring Boot, Python, and ReactJS. A fast learner who excels in Agile environments and seamlessly adapts to new technologies and challenges. Seeking Software Engineering co-op/internship for summer 2026.

EDUCATION

Master of Science, Computer Science

August 2025 – July 2027 (expected)

Rochester Institute of Technology

Rochester, NY

- Current Courseworks: Object Oriented Programming, Foundation of Computer Science Theory, Distributed Systems

Bachelor of Science (BSc), Computer Science & Engineering

April 2019 – July 2024

Bangladesh University of Engineering & Technology

Dhaka, Bangladesh

- Relevant courses: Data Structures & Algorithms, Operating Systems, Software Engineering, Computer Networking, Databases, Compilers, Artificial Intelligence
- Projects: Two fully functional full stack software engineering projects
- Research: Applied deep learning for place recognition and contrastive learning for earthquake detection
- CGPA : 3.92/4.0

WORK EXPERIENCE

Software Engineer II

November 2023 – July 2025

Pridesys IT Ltd.

Java Springboot

ReactJS

PostgreSQL

Azure Kubernetes Service

Docker

Dhaka, Bangladesh

Contributed to the development of a cloud-based enterprise resource planning (ERP) system.

- Built its micro-service architecture from the ground up while being one of the core decision making members of the team
- Collaborated with the team to research user experience best practices and implement them in the product maintaining Agile methodologies
- Implemented more than 100 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

Research Assistant

December 2022 – August 2024

Institute of Water And Flood Management, BUET

ReactJS

Google Maps Api

Dhaka, Bangladesh

Worked on a government funded project to develop a web-based early warning system for river erosion.

- 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

RESEARCH EXPERIENCE

Earthquake Early Warning System

January 2024 – August 2025

Deep Learning TensorFlow

- Researched and developed a novel deep learning model, Seismic Convolutional Neural Network (SCNN), for on-site seismic intensity prediction
- Designed and trained SCNN using small portions of initial seismic waveforms from single-station input, enhancing early earthquake warning feasibility
- Achieved lower prediction error (MSE 0.2332, SD 0.4794) compared to state-of-the-art SC-GNN (MSE 0.4172, SD 0.611), demonstrating improved accuracy and reliability

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

May 2023 – January 2024

Computer Vision Deep Learning

- Conducted a literature review of state-of-the-art methods for place recognition using partial 3D point cloud data and deep neural networks
- Generated partial point clouds from the Oxford RobotCar Dataset to train models such as PointNetVLAD and CASSPR
- Achieved 98% average recall (AR@1%) on the modified partial dataset, demonstrating strong matching performance even with reduced point cloud data

NOTABLE PROJECTS

SyncInc

Python Django Django REST ReactJs PostgreSQL MUI [fardinanam/SyncInc](#)

- Developed a full-stack project and task management platform using PostgreSQL, Django, ReactJS (Material UI), and Firebase Firestore
- Built RESTful APIs with Django REST Framework for seamless communication between frontend and backend components
- Implemented real-time notifications using Django Channels to enable instant task updates and collaboration
- Collaborated with classmates for testing and feature validation, simulating a multi-user project management environment

RentaStay

Python Django Vanilla JavaScript Oracle Database [fardinanam/RentaStay](#)

- Developed a web application for renting and managing houses and apartments using Django, Oracle Database, Vanilla JavaScript, and Bootstrap
- Designed and implemented backend architecture in Django, including database schema design, queries, and integration with Oracle
- Built interactive UI components with Vanilla JavaScript for DOM manipulation and applied Bootstrap for responsive, user-friendly styling

LEADERSHIP EXPERIENCE

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

April 2025 - July 2025

Led the development of **discuss.chat**, a team communication platform inspired by Mattermost.

- Spearheaded architectural decisions and product direction
- Managed a small distributed team of contributors
- Designed and developing the frontend using **ReactJS** and **Tailwind CSS**
- Integrated [matrix](#) for secure, federated messaging
- Incorporated [LiveKit](#) for real-time video/audio communication
- Maintained 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, JUnit, Mockito
- **Frontend:** ReactJS, Redux, Tailwind CSS
- **AI & ML Libraries:** PyTorch, Tensorflow
- **AI Tools:** Github Copilot, Claude, ChatGPT, v0, Bolt
- **Devops:** Git, Github Actions, Docker, Kubernetes
- **Others:** Jira, Postman, Bruno, Unity, Git, Vite, Bison, Flex, OpenGL, Pygame, Sklearn