

# JAY DAFTARI

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## EDUCATION

### New York University

Master of Science in Computer Engineering

- Coursework: Big Data, Internet Architecture and Protocols, Real Time Embedded Systems, Introduction to Machine Learning, Deep Learning, Efficient AI and hardware accelerator design.

Sep 2024 - Present

New York, U.S.A

### Vellore Institute Of Technology | CGPA: 3.86/4.00

Bachelor of Technology in Computer Science and Engineering

Jul 2018 – May 2022

Chennai, India

## SKILLS

**Languages:** C, C++, Java, Python, JavaScript/Typescript, Bash, HTML, CSS, SQL.

**Technologies:** Linux, Node.js, Flask, React.js, TensorFlow, Keras, PyTorch, MapReduce, Hadoop, Hive, MongoDB, AWS, Docker.

**Development:** Git, Kubernetes, PyCharm, Jira, Confluence, GoCD, Jaeger, BitBucket, Postman, Next.js, Github Actions.

**Competencies:** Software Development Lifecycle (SDLC), Agile, Design Patterns, Monolith, Microservices, Object-Oriented Programming, CI/CD, ETL, Unit/Integration Testing, LLM, Data Science, Artificial Intelligence (AI), IP networking protocols.

## WORK EXPERIENCE

### NYU Tandon school of Engineering

Teaching Assistant

- Managed Open source course development and assignment guidelines in Python and C++ with Prof. Kamen Yotov.
- Reviewed code for integrating an AI conversational bot with mail clients as a reusable package on GitHub, graded HW for over 50 students, and enforced best practices through continuous integration (CI/CD) and automated testing.

Jan 2025 – May 2025

New York City, New York

### IDFC First Bank

Software Engineer

- Contributed to core product development of tablet and web apps impacting 20M customers using Agile and React.js.
- Implemented UPI, VKYC, and other features in the front end across pre- and post-account opening journeys.
- Collaborated with cross-functional teams to design and document API contracts for RESTful services using Java Micronaut and Kafka, resulting in a 10% increase in online zero-balance account openings.
- Optimized product quality by increasing unit test coverage to 97% with Jest, conducting browser testing, and boosting Lighthouse performance score from 70% to 85%.
- Configured Grafana and Prometheus dashboards to monitor performance metrics, reducing issue detection time by 30% and providing detailed impact reports to the business.

Mar 2022 – Aug 2024

Bengaluru, India

### Center of Advanced Data Science, VIT

Research Intern

- Spearheaded research on advanced machine learning models for water quality assessment, achieving 90% accuracy, and utilized LIME and SHAP for model interpretability.

Jul 2021 – Aug 2021

Chennai, India

### Premware Services India LLP

Software Developer Intern

- Led the development of Surati Taxi's scalable backend with REST API, cutting customer request response time by 50%.
- Designed the user interface of an admin panel using the MEAN stack, boosting user management efficiency by 30%.
- Integrated real-time features such as web sockets, notifications, and live location tracking, boosting user engagement by 40% and reducing latency by 20%.

Feb 2021 – Mar 2021

Surat, India

## PROJECTS

### Focal

- Co-developed a real-time eye-tracking application with 90% accuracy with Python, Electron, and Computer Vision.
- Coded a webcam-based tracking system leveraging VLM, reducing alert latency to 4 seconds.

Feb 2025

### CluelessChef

- Architected a 2-tier system in C++ and MySQL, utilizing graph and hash table data structures and algorithm design to provide personalized recipe suggestions based on user-input ingredients.

Aug 2019

### Sportal

- Engineered a website using HTML, CSS, Node.js, EJS, and MySQL to help users find 200+ scholarships.
- Integrated a 24/7 chatbot, reducing query resolution time by 4 minutes per interaction.

Feb 2019

## PUBLICATIONS

### Explainable AI Framework for Multi-label Classification using Supervised Machine Learning Models

Proceedings of the Workshop on Advances in Computational Intelligence, its Concepts & Applications (ACI 2022) co-located with International Semantic Intelligence Conference (ISIC 2022) - [Link](#)

Nov 2022

### Efficient Dynamic Phishing Safeguard System Using Neural Boost Phishing Protections

Electronics Journal (MDPI Publication)- [Link](#)

Sep 2022