

# OMKAR UBALE

+1 332 699 1882 | [oubale@gmail.com](mailto:oubale@gmail.com) | [linkedin.com/in/omkarubale](https://www.linkedin.com/in/omkarubale) | Boston, MA | Available Jan 2025

## EDUCATION

<b>Northeastern University</b> , Boston, MA	Sep '22 – Dec '24
<b>M. S. in Computer Science</b> - Khoury College of Computer Sciences	GPA: 3.95 / 4
<b>Vellore Institute of Technology</b> , Vellore, India	Aug '14 – May '18
B. Tech. in Electronics and Communications Engineering	GPA: 8.45 / 10

## WORK EXPERIENCE

### Sway AI

*Burlington, MA*

#### Full-Stack Software Engineer Co-op

Jun '23 – Dec '23

- Implemented Partial Dependence Plots and What-If Analyzer for 20+ models to optimize model evaluation using Python, Django, React, AWS, and MongoDB as microservices, reducing iteration time from 2 hours to 30 minutes per model for users
- Introduced monitoring for models deployed on Kubernetes using Prometheus and Grafana, enabling real-time tracking of deployment's replica count, CPU, memory, errors, and inference requests
- Refactored 3 critical Django APIs by optimizing relational database queries and AWS Lambda configurations, reducing latency from 17s to 0.8s through optimized querying and using provisioned Lambda instances

### Rare Crew

*Bengaluru, India & Belgrade, Serbia*

#### Senior Full-Stack Software Engineer

Aug '18 – Jun '22

- Led a team of 20 engineers and co-led a team of 60 developers in building an [ERP product](#) with 50k+ active users
- Youngest team leader in company history, leading a team of 12 developers in key ERP feature development within 8 months, recognized for rapid advancement through performance excellence
- Founded and led a mentorship program, training 50+ developers over 2 years, reducing attrition rate from 50% to 5%
- Designed and implemented a role-based permissions model using C#, .NET and MS SQL Server, supporting 250 million configs
- Constructed timeline tool with JavaScript, HTML, and CSS, for planning allocation of 60+ stadiums for the [Premier League](#)
- Implemented indexing strategies and normalization techniques to improve SQL query execution time of 90+ stored procedures and 60+ user-defined functions to < 1 sec
- Built process management tools, asset management modules, and external sharing engine using insights from customer-facing subject matter experts using C#, .NET, SQL Server, and Azure, cumulatively building 800+ RPC and REST APIs
- Automated Azure deployments for 4 core application microservices, cutting deployment time from 2 hours to 7 min
- Created integrations layer for ERP product with SAP Systems and Power BI, enabling visibility of 14,000+ assets for [Endeavor](#), reducing the time required for status updates of assets from 60 to 4 hours per week
- Architected and led a team of 3 developers for a complete rewrite of public-facing websites using Angular 7, RazorView, jQuery, TypeScript, and Bootstrap for [rarecrew.com](#), [vault-erp.com](#), and [mydropmatters.com](#)

## AWARDS

### Sway AI, Burlington MA – Employee Recognition Award

Sep '23, Oct '23

- Awarded for exemplary performance, initiative in feature development, and application performance improvements
- Recognized for ensuring a smooth release for a client demo, which led to securing the company's first client

### Rare Crew, Bengaluru, India – Top Peer rated employee of the year

'19, '20, '21

- Recognized as a top 3 peer-rated employee for exceptional work quality, founding a mentorship program for junior employees, leading teammates, preemptively resolving client issues, and contributing articles to the company blog

## PROJECTS

### Kanbas – a clone of [Canvas](#) in MERN stack

Jan '24 – Apr '24

- Replicated popular educational web application to explore best practices in React.js, Express.js, Node.js, MongoDB, Mongoose, HTML, CSS, and Bootstrap, implementing course management, assignments, and quiz-conducting capabilities

### Portfolio Manager Desktop Application

Sep '22 - Dec '22

- Desktop application built using Java 8, JUnit 4, Java Swing, Java Spring Boot, and Alpha Vantage API to manage portfolios
- Showcases best practices using MVC, abstraction, and appropriate design patterns, with focus on code reuse and unit testing

## TECHNICAL SKILLS

**Languages:** Python, C#, Java, C++, C, JavaScript, TypeScript, [SQL](#)

**Frameworks/Libraries:** Django, .NET Core, .NET MVC, Entity Framework, React.js, Angular, JUnit, JDK, NodeJS, Spark, Hadoop, [Kafka](#)

**Databases:** MySQL, SQL Server, MongoDB, PostgreSQL, DynamoDB, AWS Aurora, GCP Firebase Realtime Database

**Others:** HTML, CSS, SCSS, Kubernetes, AWS, Azure, REST, Bash, Linux, Jenkins, Git, GitHub, Netlify

## CERTIFICATIONS

[AWS Certified Solution Architect Associate](#), Amazon Web Services

Aug '24