Pawan Bhandarkar

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Education

Carnegie Mellon University — Mountain View, CA
Master of Science in Software Engineering; ***GPA: 4.0/4.0*** — *Dec 2023*
Courses : Cloud Computing, Foundations of Software Engineering, Software Verification & Testing, Data Science

NMAM Institute of Technology — Nitte, India
Bachelor of Computer Science; ***GPA: 9.8/10*** *(top 1%, Class of 2020)* — *Apr 2020*
Courses : Data Structures & Algorithms, Object Oriented Modelling & Design, Operating Systems, RDBMS

Skills

Languages : Go, C#, GraphQL, JavaScript, Java, Python, SQL, NoSQL
Tools : gRPC, Kafka, ActiveMQ, Redis, Docker, WebSockets, AWS, New Relic, Jenkins
Frameworks : React, Redux, NodeJS, Express, MongoDB, Flask, PostgreSQL
Soft Skills : Communication (verbal and written), Leadership, Collaboration, Mentorship

Experience

TuneIn Radio — San Francisco, USA
Software Engineer Intern, Platform — *Jun 2023 - Aug 2023*

- Pioneered subscription-based APIs via WebSockets on the GraphQL API gateway backed by microservices using gRPC communication in Go
- Expanded the C# (.Net core) monolith codebase with support for live streaming metadata for over 120,000 radio stations
- Deployed microservices to staging via CI/CD with Terraform and Kubernetes and monitored them using New Relic
- Built data communication pipelines using Apache ActiveMQ and Redis Streams (AWS ElastiCache)
- Wrote comprehensive test suites and load-tested the microservice using NBomber to ensure production-readiness

Team AIBOD Inc. — Fukuoka City, Japan
Software Engineer 2 — *Nov 2021 - Apr 2022*

- Led end-to-end development of a payment microservice with Python, Flask, and PostgreSQL with HTTPS/SSL for security
- Developed a component library with React, CSS, and TypeScript for an unmanned store
- Deployed applications using Docker and AWS (ECR + ECS) and configured CloudWatch for monitoring
- Engineered a search system using Python, SQL, GraphQL, and React for Kyushu Electric

Software Engineer 1 — *Feb 2020 - Oct 2021*

- Created a Python script and a Tkinter-based GUI-tool for annotating and visualizing images, increasing data pre-processing rate from 20 to 200 images/hour and improving team productivity
- Integrated 30+ REST APIs leveraging API docs and Postman, resulting in enhanced app functionality
- Set up a Jenkins pipeline for CI/CD and supported DevOps with AWS (ECR, ECS, S3 and AWS Fargate)
- Reduced total API calls by 30% by implementing Redux for simplified state management on the frontend

Projects

Incident Response | *AWS, Docker, React, Socket.IO, MongoDB, Jenkins, Jira* — *Feb 2023 - May 2023*

- Developed a communication platform for citizens and first responders during emergencies using Express.js, Socket.IO, and Mongoose. Refactored codebase and managed development in a scrum-of-scrums setting. Deployed the app using Docker, Jenkins, and AWS.

Emergency Social Network | *HTML, CSS, TypeScript, NodeJS, MongoDB* — *Aug 2022 - Dec 2022*

- Built an emergency communication system for real-time SOS messaging during earthquakes with an MVC architecture. Utilized SCRUM and Kanban agile practices, object-oriented analysis (OOA) and test-driven development (TDD) in a fast-paced environment to create a user-friendly system with JSON-based RESTful APIs

Re:use | *React, Typescript, NodeJS, MongoDB, Figma* — *Aug 2022 - Dec 2022*

- Led the development of the MVP for a Resource Management application in the donation industry by generating style guides in Figma, and converting user requirements into working software using the MERN Stack.

Awards & Leadership

Graduate Teaching Assistant : Software Requirements & Interaction Design (CMU - Fall 2023)
Graduate Teaching Assistant : Foundations of Software Engineering (CMU - Spring 2023)
Student Leader : ECE Graduate Organization (CMU - Fall 2022)