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 Requirements & Interaction Design, Software Testing

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 : Python, JavaScript, TypeScript, Go, Java, C#, C++, GraphQL

: Kafka, AWS, ActiveMQ, Azure, Docker, Redis, Terraform, Kubernetes, Linux, gRPC, New Relic

Frameworks: React, Redux, NodeJS, Flask, PostgreSQL, OpenAI, Express, MongoDB, Tailwind : Communication (verbal and written), Leadership, Collaboration, Mentorship

Experience

TuneIn Radio Software Engineer Intern, Platform San Francisco, USA

Jun 2023 - Aug 2023

- Enhanced real-time data delivery for up to 7.5 Million monthly users by spearheading the development of subscription-based APIs using WebSockets. Utilized Test-Driven Development in Go to ensure a robust GraphQL API gateway
 - Engineered high-throughput data communication pipelines, processing over 2 Million messages per day with latencies under 30 ms using Apache ActiveMQ and Redis Streams on AWS ElastiCache
 - Achieved 95% code coverage with testing and load-tested 100,000 concurrent requests to ensure production readiness
- Automated microservice deployment with Terraform and Kubernetes. Maintained 99.9% uptime with New Relic monitoring
- Expanded the legacy C# (.NET Core) monolith with support for live streaming metadata for over 120,000 radio stations
- Collaborated with Product Managers to translate business requirements into technical specifications

Team AIBOD Inc

Fukuoka City, Japan

Nov 2021 - Apr 2022

Software Engineer 2

- Created a React component library, eliminating 50% of UI variants, enhancing consistency in a POS system
- Engineered an information management system for serving up to 150,000 users daily, with Python, SQL and GraphQL
- Led the development of a payment microservice, handling 200 transactions per hour, with gRPC, Flask and PostgreSQL
- Conducted A/B tests to understand user behavior, tailoring the information management system to better suit user needs
- Engaged in cross-functional meetings with PMs and designers to ensure alignment between user needs and development tasks

Software Engineer 1

- Slashed total API calls by 80% by pioneering the use of Redux, contributing to a 20% improvement in app load times
- Integrated 30+ RESTful APIs leveraging Apiary and Postman, resulting in enhanced app functionality
- Set up a Jenkins CI/CD pipeline that automated 100+ weekly builds, while utilizing AWS services like ECR, ECS, S3, and AWS Fargate for seamless DevOps

Projects

AgentDocs | OpenAI, React, TypeScript, Tailwind

Sept 2023 - Present

• Hackathon Project: built an MVP for a collaborative text editor like Google Docs where you can @mention AI Agents specialising in different tasks, such as summarization, translation, and image generation. Used OpenAI's GPT-3.5 API to generate summaries of documents. This work is based on an open-source project called Novel.sh

Incident Response | React, CloudFront, Docker, Socket.IO, MongoDB, Jenkins

• Led the frontend development of a mobile-first communication platform for citizens and first responders during emergencies. Used Ant Design, Figma and Storybook for the UI, refactored the codebase and advised the team on best practices in UI development and accessibility. Deployed the app to S3 using Jenkins and CloudFront

Kanban Task Manager | React, EC2, ECR, Docker, NodeJS, MongoDB

• Developed a responsive web app with pixel perfect user interfaces based on Figma designs. Used Client-Server architecture with dynamic theming and drag-and-drop UI, focusing on A11y, ARIA and Semantic HTML. Deployed to AWS EC2 using Docker and ECR with a CI/CD pipeline using Github Actions. Handled security with HTTPS/SSL on the AWS Load Balancer

Awards & Leadership

Sakura Science Fellow: Received a fully-funded scholarship from the Japan Science and Technology Agency to participate in a research internship at Ritsumeikan University, Japan

Teaching Assistant: Demonstrated strong leadership and team collaboration skills as a Graduate Teaching Assistant for three courses: Foundations of Software Engineering, Software Requirements & Interaction Design and Introduction to Graduate Studies