

Pawan Bhandarkar

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Education

Carnegie Mellon University

Mountain View, CA

Master of Science in Software Engineering; GPA: 4.0/4.0

Aug 2022 - 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)

Jul 2016 - 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, Message Queues, 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

- Contributed to next generation platform by adding support for subscriptions 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, using Swagger for API design and implementing security (HTTPS/SSL), improving scalability and promoting reuse across 3 projects
- Developed a component library with React, CSS, and TypeScript for an unmanned store, enhancing accessibility through an intuitive interface, accelerating UI development, and streamlining the overall process
- Actively containerized and deployed applications utilizing Docker, configured AWS CloudWatch for remote monitoring across 5 unmanned store locations, effectively ensuring streamlined and efficient operations
- Streamlined 3 ongoing projects by engineering a Search System using Python, SQL, GraphQL, and React, styled with TailwindCSS, resulting in faster and a more efficient data retrieval

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

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)