

# Pawan Bhandarkar

Mountain View, CA

Email : panambub@andrew.cmu.edu

Mobile : +1-650-537-7341

Portfolio: <https://bhandarkar.me>

Github: <https://github.com/BhandarkarPawan>

Linkedin: <https://www.linkedin.com/in/bhandarkar>

## EDUCATION

### Carnegie Mellon University

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

**Courses :** Foundations of Software Engineering, Software Verification & Testing, Data Science for Software Engineering

Mountain View, CA

December 2023

### NMAM Institute of Technology

*Bachelor of Computer Science; GPA: 4.0/4.0*

**Courses :** Data Structures & Algorithms, Object Oriented Modelling & Design, Software Architecture, DBMS

Nitte, India

April 2020

## EXPERIENCE

### Team AIBOD Inc

#### Software Engineer II

Fukuoka City, Japan

Nov 2021 - Apr 2022

- Led development of a payment microservice, improving scalability and promoting reuse across 3 projects in a team of 7 using Scrum and Kanban Agile methodologies
- Built a component library for an unmanned store, accelerating UI development and streamlining the overall process
- Containerized and deployed applications using Docker, configured remote monitoring for 5 unmanned store locations using AWS Cloudwatch, ensuring efficient operations
- Enhanced 3 ongoing projects by engineering a Search System with GraphQL and Python, using a test-driven approach, resulting in faster and more efficient data retrieval

#### Software Engineer I

Jul 2020 - Oct 2021

- Developed a GUI-tool for annotating and visualizing images, resulting in a 10x faster data pre-processing rate
- Integrated 30+ REST APIs, enhancing app functionality in a team of 6, wrote comprehensive integration tests
- Set up a Jenkins pipeline for CI/CD, and supported DevOps with AWS services (ECR, ECS, S3 and AWS Fargate)
- Reduced total API calls by 30% by implementing Redux for simplified state management on the frontend

#### Data Science Intern

Feb 2020 - Jun 2020

- Boosted KNN-supervised classifier accuracy by 7% through Feature Engineering, resulting in effective product classification in an unmanned store within a team of 4
- Researched BERT with PyTorch to automate support request routing in an apartment intercom system, integrating it with the Express API Server to provide AI as a Service
- Resolved over 20 bugs in the NodeJS (TypeScript) API server, contributing to increased stability and server performance, and assisted in full-stack application development

## PROJECTS

### Incident Response | AWS, Docker, React, Socket.IO, MongoDB, Jenkins, Jira

Feb 2023 - Present

- 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

## SKILLS

**Languages :** Python, GraphQL, JavaScript, TypeScript, HTML5, CSS3, Java, C++, SQL

**Frameworks :** ReactJS, NodeJS, Pytorch, Tensorflow, Redux, Express, NextJS, Flask, MongoDB, PostgreSQL

**Tools :** Jenkins, Docker, AWS, Swagger, Postman, Figma, Storybook, Git

**Practices :** Scrum, Kanban, Continuous Integration, Code Reviews, Test-Driven-Development

## LEADERSHIP

**Graduate Teaching Assistant :** Mentored student Project teams on Software Engineering Principles and Practices for the Foundations of Software Engineering Course at Carnegie Mellon University

**Student Leader :** ECE Graduate Organization at Carnegie Mellon University (Among 160 students)