

# Panambur 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, Software Requirements & Interaction Design

Mountain View, CA

*Aug 2022 - Dec 2023*

### NMAM Institute of Technology

*Bachelor of Computer Science; GPA: 9.8/10*

**Courses :** Data Structures and Algorithms , Object Oriented Modelling & Design, Linear Algebra & Probability Theory

Nitte, India

*Jul 2016 - Apr 2020*

## SKILLS

**Languages:** JavaScript, ReactJS, Python, SQL, HTML, CSS, GraphQL, Java, C++, Promela

**Libraries & Frameworks:** NodeJS, NextJS, Redux, MongoDB, PostgreSQL, MySQL, Express, Flask, Sass, JUnit

**Tools:** Figma, Docker, AWS, S3, Jupyter, Postman, VSCode, JWT, Apollo

## EXPERIENCE

### Team AIBOD Inc.

*Software Engineer 2*

Fukuoka City, Japan

*Nov 2021 - Apr 2022*

- Developed **50+ UI components** for an unmanned store with **React, TypeScript, and Styled-Components** which led to a 10% (~¥1.2M) increase in annual revenue.
- Optimized the POS by engineering a **RESTful** payment server with a **microservice architecture** using **Python, Flask and PostgreSQL** expanding the company's customer base (~¥500K/year) to include BioPay users.
- Facilitated rapid deployment through **Containerization with Docker** and configured **AWS Cloudwatch** for remotely monitoring system performance across 15 different customer locations.
- Generated user stories, and roadmaps for stakeholders and **trained** interns, and contract engineers in the company's stack.

### Software Engineer 1

*Jul 2020 - Oct 2021*

- Streamlined the **end-to-end pipeline** for delivering the results of **Human-Object Interactions** and built internal tools using python for annotating and visualizing images that improved the data pre-processing rate by 10x (from 20/h to 200/h).
- Pioneered the use of **GraphQL** by engineering a search system with **Apollo and Ariadne**, which expedited 3 other projects.
- Enabled the team to deploy with confidence, writing **unit and integration tests** in Typescript using **Jest** and **Supertest** with over **80% code coverage**.

### AI Engineer Intern

*Feb 2020 - Jun 2020*

- Contributed to ongoing full-stack applications by fixing 20+ bugs in the API server with **NodeJS and Typescript**.
- Increased the accuracy of a **KNN-supervised classifier** from 80% to 87% through feature engineering.
- Trained and evaluated BERT NLP algorithm using **PyTorch** for **Named Entity Recognition** and integrated with the AI Backend and **Express API Server** to provide AI as a Service.

## PROJECTS

### Emergency Social Network | TypeScript, Express, Socket.io, MongoDB, Postman

*Aug 2022 - Present*

- Implemented a **robust** system architecture, applying **SCRUM** and **Kanban** agile practices.
- Led a dev team of 5** students to develop the app with a focus on **usability**.
- As the **lead developer**, planned, scoped, and delegated work through **Object Oriented Analysis & Design**.
- Mentored** team members through **code reviews** in HTML and CSS to generate highly **maintainable, test-driven code**.
- Designed and integrated a clean, visually aesthetic UI with **JSON-based RESTful APIs**.

### Re:Use | Figma, Jama, Miro

*Aug 2022 - Present*

- Collaborating in a team of 6**, to ideate a solution for problems faced by customers and volunteers in the donation industry.
- Requirements Engineering** using the **Dual-track agile methodology** for UX design.
- Working as an interaction designer to drive **user research/interviews**, create a core product **vision & prototype** and build a **Minimum Viable Product (MVP)**.

### Refriendo | React, Redux, TypeScript, Styled-Components, Figma, Git

*Oct 2021 - Jul 2022*

- Demonstrated a proof-of-concept through **rapid prototyping** that was responsible for **80%** of the seed funding.
- Spearheaded the design and implementation of **100+ front-end components** with a mobile-first approach.

## LEADERSHIP

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

**Mentor, Applied CS with Android:** Trained 300 students on Android programming by conducting 2 workshops.