

# 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>

## Summary

Full-stack engineer experienced (2+ years) in building **responsive**, **accessible** web applications. I write **clean**, **modular**, and **well-tested** code that is easy for teams to **understand**, **extend**, and **integrate**. Seeking software engineering internship for Summer'23

## 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 (top 1%, Class of 2020)*

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

Nitte, India

*Jul 2016 - Apr 2020*

## Skills

**Languages :** Typescript, JavaScript, Python, SQL, HTML5, CSS, GraphQL

**Libraries & Frameworks :** React, NodeJS, NextJS, Express, Redux, MongoDB, PostgreSQL, Flask, Bootstrap, TailwindCSS

**Tools :** Figma, Docker, AWS, S3, Postman, VSCode, Git, Miro, Jama

## Experience

### Team AIBOD Inc.

Fukuoka City, Japan

#### Software Engineer 2

*Nov 2021 - Apr 2022*

- Developed 50+ UI components with **React** and **TypeScript** resulting in a 10% (~ 1.2M) increase in annual revenue.
- Created a **RESTful** payment server with a microservice architecture using **Python**, **Flask**, and **PostgreSQL**, expanding the customer base (~ ¥500K/year) to include BioPay users.
- Containerized and deployed applications using **Docker** and configured **AWS Cloudwatch** for remote monitoring, improving system performance across 15 customer locations.
- Trained and mentored interns and contract engineers in the company's stack.

#### Software Engineer 1

*Jul 2020 - Oct 2021*

- Improved data pre-processing rate by 10x (from 20/h to 200/h) by building image annotation tools with **Python**.
- Designed and implemented a Search System using **GraphQL** with **Apollo** and **Ariadne**, streamlining 3 ongoing projects.
- Improved team efficiency and reliability with over 80% code coverage through unit and integration **testing** with **Jest**.

#### AI Engineer Intern

*Feb 2020 - Jun 2020*

- Fixed 20+ bugs in the API server with **NodeJS** and **Typescript** and contributed to ongoing full-stack applications.
- Improved 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 the AI backend and **Express API Server** to provide AI as a Service.

## Projects

### Kanban Task Manager | *React, TypeScript, Styled-Components, Figma, Git*

*Jun 2022 - Present*

- Developed a highly accessible Kanban Task Manager with pixel-perfect implementation and best practices in **A11y**, **Semantic HTML**, and **ARIA labels**, which ensured usability with screen readers such as Apple Voice Over. Generated clear API documentation with **API Blueprint** and **Postman**.

### Emergency Social Network | *HTML, CSS, Javascript, MongoDB*

*Aug 2022 - Dec 2022*

- Implemented a robust system architecture, applying **SCRUM** and **Kanban** agile practices to develop the app with a focus on usability. Applied **Object-Oriented Analysis & Design** to lead development efforts and built a highly maintainable, test-driven application that provides **JSON-based RESTful APIs** for the frontend as well as headless clients.

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

*Aug 2022 - Dec 2022*

- Collaborated in a team of 6, to ideate a solution for problems faced by customers and volunteers in the donation industry by conducting user research, generating storyboards with **Miro**, style guides with **Figma** and a Minimum-Viable-Product (MVP) using **React**, **Typescript** and **Styled-Components**.

### Refriendo | *TypeScript, React, CSS, Figma, Git*

*Oct 2021 - Jul 2022*

- Generated a high-fidelity **Figma** prototype with a clean, visual design aesthetic and conducted think-aloud usability testing surveys to iteratively improve the design, followed by implementation of the mockups using a **Client-Server Architecture** and modern patterns such as **React Hooks** and **Context API**.

## Awards & Leadership

**Graduate Teaching Assistant :** Foundations of Software Engineering at Carnegie Mellon University

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

**Youth Icon (title) :** Won first place in a national public speaking competition among 5000 participants in March 2019.