

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

Mountain View, CA

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

Aug 2022 - Dec 2023

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

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, Linear Algebra & Probability Theory

Skills

Languages : Typescript, JavaScript (ES6+), Python, SQL, NoSQL, HTML5, CSS, XML, JSON, GraphQL, Java, C++

Libraries & Frameworks : React, NodeJS, Flask, PostgreSQL, Express, Bootstrap, Redux, Styled-Components, MongoDB, Sass

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 a comprehensive component library with **React and Typescript** for an unmanned store, enhancing accessibility through touch-screen and voice-based interface, accelerating UI development and streamlining the overall development process
- Implemented a **RESTful** payment server using **Python, Flask, and PostgreSQL for CRUD operations**, resulting in the expansion of customer base by including BioPay users, contributing to ~¥500K increase in annual revenue.
- Containerized and deployed applications using **Docker**, and set up **AWS Cloudwatch** for remote monitoring of unmanned stores across 5 customer locations, ensuring smooth and efficient operations.
- **Mentored 3 interns** from IIT Hyderabad, promoting technical and professional growth in a collaborative environment.

Software Engineer 1

Jul 2020 - Oct 2021

- Created a **Python script** and a GUI-tool using **Tkinter** for annotating and visualizing images, increasing the data pre-processing rate from 20 to 200 images/hour and improving team productivity.
- Designed and implemented a Search System using **GraphQL** with **Apollo** and **Ariadne**, streamlining 3 ongoing projects.
- Introduced **unit and integration tests** with **Jest** which improved team efficiency and reliability with over 80% coverage.

AI Engineer Intern

Feb 2020 - Jun 2020

- Applied **Feature Engineering** to improve the accuracy of a **KNN-supervised classifier** by 7%, resulting in more effective classification of products in an unmanned store.
- Experimented with **BERT** using **PyTorch** for **Named Entity Recognition** to automate support request routing in an apartment intercom system and integrated it with the **Express API Server** to provide AI as a Service.
- Expertly resolved more than 20 bugs in the API server using **NodeJS and Typescript**, resulting in improved stability and performance of the server, also contributed to ongoing full-stack applications.

Projects

Emergency Social Network | HTML, CSS, TypeScript, NodeJS, MongoDB

Aug 2022 - Dec 2022

- Built a web-based emergency communication system for real-time SOS messaging during earthquakes. Utilized **SCRUM** and **Kanban** agile practices, **OOAD**, and a test-driven development approach to create a highly maintainable and user-friendly system with **JSON-based RESTful APIs**.

Kanban Task Manager | React, NodeJS, Styled-Components, Figma

Jun 2022 - Present

- Developed a highly accessible Kanban Task Manager using **Client-Server** architecture with **React Hooks** and **Context API** focussing on **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**.

Re:use | React, Typescript, NodeJS, MongoDB, Figma, Jama, Miro

Aug 2022 - Dec 2022

- Led the development of the **MVP** for a Resource Management application in the donation industry by generating style guides in **Figma**, and converting user requirements into working software using the **MERN Stack**.

Refriendo | TypeScript, React, CSS, Figma, Git

Oct 2021 - Jul 2022

- Implemented a cross-platform Event Management Application for both **Android** and **iOS** using **React** and **Ionic Capacitor**. Designed and iteratively improved the user interface through high-fidelity **Figma** prototypes and think-aloud usability testing surveys, resulting in a clean, visually appealing design aesthetic.

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.