Pawan Bhandarkar

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EDUCATION

Carnegie Mellon University   **Mountain View, CA**
*Master of Science in Software Engineering; **GPA: 4.0/4.0***   *December 2023*
Courses : Foundations of Software Engineering, Software Verification & Testing, HCI & User Experience

NMAM Institute of Technology   **Nitte, India**
*Bachelor of Computer Science; **GPA: 4.0/4.0***   *April 2020*
Courses : Data Structures & Algorithms, Object Oriented Modelling & Design, Software Architecture, DBMS

EXPERIENCE

Team AIBOD Inc   Fukuoka City, Japan
Software Engineer II   *Nov 2021 - Apr 2022*

- 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
- Streamlined 3 ongoing projects by implementing a Search System using SQL, GraphQL, and React, styled with TailwindCSS, resulting in faster and a more efficient data retrieval
- 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
- Crafted a visually stunning Design System using Figma and Storybook, featuring a modern design aesthetic

Software Engineer I   *Jul 2020 - Oct 2021*

- Reduced total API calls by 30% by implementing Redux for simplified state management on the frontend
- Integrated 30+ REST APIs leveraging API docs and Postman, resulting in enhanced app functionality
- Transformed UI mockups into pixel-perfect, responsive implementations for seamless mobile and desktop experiences
- Set up a Jenkins pipeline for CI/CD and supported DevOps with AWS (ECR, ECS, S3 and AWS Fargate)
- Created a Python script and a GUI-tool using Tkinter for annotating and visualizing images, increasing data pre-processing rate from 20 to 200 images/hour and enhancing team productivity

Data Science Intern   *Feb 2020 - Jun 2020*

- Applied Feature Engineering, boosting KNN-supervised classifier accuracy by 7%, resulting in effective classification of products in an unmanned store
- Led research efforts for BERT with PyTorch to automate support request routing in an apartment intercom system by recognizing named entities and integrating it with the Express API Server to provide AI as a Service
- Resolved more than 20 bugs in the NodeJS (TypeScript) API server, resulting in increased stability and server performance, also contributed to ongoing full-stack applications

PROJECTS

Emergency Social Network | *HTML, CSS, TypeScript, NodeJS, MongoDB* | <u>Link</u>   *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

Kanban Task Manager | *React, NodeJS, Styled-Components, Figma* | <u>Link</u>   *Jun 2022 - Dec 2022*

- Developed a highly accessible Kanban Task Manager on a Client-Server architecture with React Hooks and Context API focussing on A11y, Semantic HTML, and WCAG guidelines, ensuring usability with screen readers such as Apple Voice-Over. Generated clear API documentation with API Blueprint and Postman

SKILLS

Languages   : JavaScript, HTML5, CSS3, TypeScript, SQL, GraphQL, Python, Java, C++
Frameworks : React, Redux, NextJS, jQuery, Zustand, Tailwind, NodeJS, Flask, PostgreSQL, Express, MongoDB
Tools   : Figma, Swagger, Storybook, Jenkins, Docker, AWS, Postman, Git

LEADERSHIP

Graduate Teaching Assistant : Foundations of Software Engineering at Carnegie Mellon University
Student Leader : ECE Graduate Organization at Carnegie Mellon University (Among 160 students)