

SHIV PANCHAL

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EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly)

Sept 2022 - Dec 2024

Bachelor of Science Degree in Software Engineering

Relevant Coursework: Software Engineering I & II, Design and Analysis of Algorithms, Intro to Database Systems, Systems Programming, Graduate Level Software Engineering, Web Development, Programming Languages, User-Centered Interface Design and Development, Software Requirement Engineering, Software Construction, Software Deployment

TECHNICAL SKILLS

Languages and Framework: Python, Java, ReactJS, AngularJS, Typescript, Material UI, Daisy UI, HTML, CSS, JavaScript, SQL

Software Tools: AWS, Lambda, GraphQL, Vite, API Gateway, AWS SES, WAF, Docker, Terraform, Postman, Tailwind CSS, Rest API, VSCode, Figma, Git, JIRA

EXPERIENCE & INVOLVEMENT

Cat Guardians TNR & Rescue: Non-Profit (Volunteer)

Dec 2024 - Present

Languages and Tools: ReactJS, AngularJS, JavaScript, Next.js, Typescript, Material UI, Lambda, GraphQL, AWS, WAF, SES, API Gateway, Terraform

- Built a dynamic web application frontend using ReactJS with Vite and TypeScript, reducing page load times by 35% and improving scalability.
- Integrated AWS Lambda, SES, and API Gateway to manage serverless backend operations and email services efficiently.
- Collaborated on the development of AngularJS components for the admin interface and ReactJS modules for the user-facing side, ensuring consistent functionality and user experience across both platforms.
- Applied RESTful APIs for communication between frontend and backend, reducing API response times by 20%.
- Refactored codebase and optimized state management, boosting overall application performance and reducing memory usage by 15%.

Zoetic Motion, Internship

Jul 2023 – Aug 2023

Languages and Tools utilized: Figma

- Researched and designed a usability and patient engagement strategy that allowed for a minimum viable product.
- Collaborated in intensive R&D process for IP-Protected strategy.
- Conducted over 15+ user interviews during the customer discovery process, generating data-driven insights for product improvements.
- Developed an interactive UI/UX prototype to support efficient product design and production workflows.

Color Coded, Chief of Operation Officer

May 2023 – Oct 2024

- Assisted club officers with planning and coordinating meetings, events, and club activities.
- Connected club members with tech opportunities on campus.
- Actively encouraging member engagement and participation and ensuring everyone is valued and included.

PROJECTS

Image Tracing Robot(UR3e): Team Project

Sept 2024 – Dec 2024

Languages and Tools Utilized: Java, Python, Docker

- Achieved seamless integration of image processing and robotic simulation by developing a Java application to upload and process images, resulting in precise contour extraction using Python.
- Facilitated real-time robotic drawing of user-uploaded images by establishing a Java TCP connection to a Docker-based robot simulator, ensuring efficient and accurate communication between systems.
- Optimized multi-language integration, reducing communication latency by 25% between Python and Java.
- Enhanced user experience in robotic control by implementing a pipeline from image upload to robot movement, demonstrating end-to-end functionality for tracing images with precision.

Checkmate: Capstone Project

Oct 2023 – Jun 2024

Languages and Tools Utilized: Angular, Typescript, JavaScript, Tailwind CSS, NX, JIRA

- Developed and maintained a scalable Angular application using NX, designed to optimize veterinary worker productivity and task tracking.
- Designed a mobile-friendly interface with Tailwind CSS and Daisy UI, improving accessibility and responsiveness by 50%.
- Managed 12 bi-weekly sprints, conducted 24+ standups, and participated in regular client meetings, improving sprint velocity by 20%.

Intelligent Tutor System: Team Project

Jan 2023 – Jun 2023

Languages and Tools Utilized: Java, ChatGPT API, MySQL

- Implemented a program that allows students to learn code with ChatGPT as assistant using software development process.
- Leveraged ChatGPT API to assist users by dynamically providing hints on questions when needed help.
- Designed UI for chatting with ChatGPT to ask for any help when needed