

# Karan Sandhu

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<https://realkaranvir.github.io/portfolio/>

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## Education

San Luis Obispo, CA	Cal Poly San Luis Obispo	Fall 2022 – December 2025
<ul style="list-style-type: none"><li>• B.S. in Software Engineering. Current GPA: 3.716.</li><li>• Relevant Coursework: Data Structures; Design and Analysis of Algorithms; Object Oriented Programming; Systems Programming; Software Engineering, Software Requirements Engineering, Statistics.</li></ul>		

## Technical Skills

- Languages: JavaScript, TypeScript, HTML, CSS, C, Java, SQL, Python
- Technologies: React, ReactNative, Node.js, Express.js, REST
- Tools: Git, Azure, AWS, Unix, Jira
- Programs: Microsoft Office, Google Suite

## Projects

FoodFunds	September 2024 - Present
<i>Creator</i> <ul style="list-style-type: none"><li>• Developed <b>FoodFunds</b>, a grocery spending tracker with a <b>ReactJS</b> frontend using <b>Chakra UI</b> and an <b>Express.js</b> backend integrated with a <b>Supabase</b> database.</li><li>• Implemented <b>CI/CD</b> pipelines through <b>Azure</b>, using a <b>Static Web App</b> for the frontend and a <b>Web App</b> for the backend, automating builds, tests, and deployments through <b>Github Actions</b>.</li><li>• Gained expertise in configuring <b>YAML</b> files and managing workflows to ensure efficient and reliable deployments.</li><li>• Designed the app to track grocery spending, item details, expiration dates, and other useful info with real-time updates to the dashboard.</li></ul>	
<b>Haggle</b>	Winter 2024 - Summer 2024
<i>Co-Creator</i> <ul style="list-style-type: none"><li>• Developed an online marketplace using React with <b>Primitive UI</b> and an <b>Express.js backend</b> with a <b>PostgreSQL</b> database through Supabase.</li><li>• Integrated <b>AWS S3</b> for image storage.</li><li>• Utilized <b>TalkJS</b> API for chat messaging between users.</li><li>• Validated backend functionality with Mock testing and worked in a team using <b>Agile</b> methodologies to collaborate efficiently with a 5-person team.</li><li>• Deployed application using Github CI/CD workflows with hosting on Azure and Render</li><li>• Used code reviews to solidify code quality and functionality</li></ul>	
<b>Portfolio</b>	September 2024 - Present
<i>Creator</i> <ul style="list-style-type: none"><li>• Created a portfolio website to showcase my projects and experience</li><li>• Developed the frontend using <b>Vue.JS</b> with <b>Nuxt.JS</b> and <b>Tailwind CSS</b></li><li>• Used <b>Github Pages</b> for website hosting</li></ul>	

## Employment

Student Lead	Cal Poly ITS Service Desk	Feb 2024-Present
Led and managed student assistants in creating and managing Jira tickets to efficiently track and resolve technical issues. Supervised troubleshooting of hardware and software problems across various computer systems. Guided students and faculty through software installations, ensuring effective and clear support.		