Karan Sandhu

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Pronounced Kuh-run
Available June 17th
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Education

San Luis Obispo, CA	Cal Poly San Luis Obispo	Fall 2022 – Present

- B.S. in Software Engineering. Current GPA: 3.716.
- Relevant Coursework: Data Structures; Design and Analysis of Algorithms; Object Oriented Programming; Systems Programming; Software Engineering.

Technical Skills

- Languages: JavaScript, 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
Creator

- Developed **FoodFunds**, a grocery spending tracker with a **ReactJS** frontend using **Chakra UI** and an **Express.js** backend integrated with a **Supabase** database.
- Implemented **CI/CD** pipelines through **Azure**, using a **Static Web App** for the frontend and a **Web App** for the backend, automating builds, tests, and deployments through **Github Actions**.
- Gained expertise in configuring **YAML** files and managing workflows to ensure efficient and reliable deployments.
- Designed the app to track grocery spending, item details, expiration dates, and other useful info with real-time updates to the dashboard.

Haggle
Co-Creator

- Developed an online marketplace using React with **Primitive UI** and an **Express.js backend** with a **PostgreSQL** database through Supabase.
- Integrated **AWS S3** for image storage.
- Utilized **TalkJS** API for chat messaging between users.
- Validated backend functionality with Mock testing and worked in a team using **Agile** methodologies to collaborate efficiently with a 5-person team.
- Deployed application using Github CI/CD workflows with hosting on Azure and Render

Calculator

- Developed a Java-based calculator app utilizing the Composite design pattern.
- Implemented a user-friendly UI that supports postfix and prefix input, and creating variables with stored values.
- Validated the application's core logic and functionality through comprehensive testing.

Employment

Student Lead	Cal Poly ITS Service Desk	Winter 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.