SUE SUE

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EDUCATION

California Polytechnic State University, San Luis Obispo — San Luis Obispo, CA
Bachelor of Science in Computer Science — *Sept. 2024 – Jun. 2026*

De Anza College — Cupertino, CA
Associate degrees in Computer Science and Mathematics — *Sept. 2022 – Jun. 2024*

WORK EXPERIENCE

International Center Front Desk Student Assistant — Dec 2024 – Present
Cal Poly, San Luis Obispo — *San Luis Obispo, CA*

- Manage data-driven projects supporting study abroad programs, create marketing content, and engage with diverse student populations through in-person, phone, and email interactions at the International Center.

Software Developer at Hack4Impact — Oct. 2024 – Present
Cal Poly, San Luis Obispo — *San Luis Obispo, CA*

- Collaborate with cross-functional teams of developers, product managers, and designers to build impactful software solutions for local nonprofits using **JavaScript, Typescript, React, Next.js, Node.js, and MongoDB.**

Teaching and Mentorship Experience — Jun. 2023 – Present
Stanford University, De Anza College, ShareWorld Learning Center

- Chosen out of 1000 applicants to teach the first half of Stanford's Intro to Python course, CS106A, to 10 students globally on Zoom in June 2023 and June 2024.
- Provided in-person and online tutoring, hosted office hours, and one-on-one sessions for **Introduction to Advanced C++, Java, Python, and x86 Assembly** courses, supporting over 80+ students at De Anza College.
- Volunteered teaching Python to high school students, fostering problem-solving skills and algorithmic thinking.

Student Assistant at Admissions and Records — Jun. 2023 – Aug. 2024
De Anza College — *Cupertino, CA*

- Provided technical and administrative support for admissions and registration processes by handling in-person, phone, and email inquiries. Contributed to college PII-related projects by performing database queries and data entry ensuring secure management and compliance with data protection standards.

TECHNICAL PROJECTS

Referral Program for Paso Robles Food Cooperative | *Next.js, React.js, Supabase, Prisma ORM, Docker*

- **Developed and optimized backend APIs** for the referral program using **Next.js, Supabase, and Prisma ORM** for efficient referral tracking and authentication.
- Designed and implemented **frontend components** for referral submission and redemption forms using **React.js and MUI**, ensuring a user-friendly interface.
- **Integrated MySQL and Supabase databases**, automated email notifications, and deployed the system using **Docker** for scalability and efficiency.

Roommate Chores Tracker | *Python, PostgreSQL, FASTAPI, SQLAlchemy, Docker*

- Developed a back-end API for a chore tracking system using **FastAPI and SQLAlchemy**, enabling efficient chore assignments, bill tracking, and user role management, **with Swagger UI for API documentation.**
- Designed and implemented a relational database and **RESTful API endpoints** to support CRUD operations for chore management, bill splitting, and roommate coordination.
- Simulated high-load testing by writing a Python script to generate **1 million fake users**, optimizing database performance with **indexes** for efficient queries.
- **Utilized Docker** to deploy and test the database under load conditions locally, ensuring system scalability and reliability.

POS System for Grocery Store | *Java, JavaFX, MySQL*

- **Developed a POS system** supporting **checkout, order processing, sales tracking, and inventory management** for a grocery store.
- **Designed user and admin interfaces** using **JavaFX**, ensuring seamless transaction handling and voucher printing.
- **Utilized MySQL** for efficient database management, optimizing performance and scalability.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, MySQL, PostgreSQL, HTML/CSS
Frameworks: React, Node.js, Next.js, FastAPI, Prisma, SQLAlchemy, Express, MongoDB, PyTorch, TensorFlow
Developer Tools: Git, GitHub, VS Code, PyCharm, Eclipse, Docker, Dbeaver, Postman, Supabase, AWS, Figma
Relevant Coursework: Object-Oriented Analysis and Design, Discrete Mathematics, Linear Algebra, Circuit Analysis, Design and Analysis of Algorithms, Database Systems, Statistical Methods for Engineers, UI/UX, Intro to Software Engineering, Systems Programming, Artificial Intelligence (in-progress)