

SHAYAN DAIJAVAD

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EDUCATION

California Polytechnic State University – San Luis Obispo

Bachelor of Science Degree in Computer Science

Sept 2021 – June 2025

GPA: 3.835

Relevant Coursework: Data Structures, Object Oriented Programming, Systems Programming, Computer Architecture, Design and Analysis of Algorithms, Intro to Software Engineering, Intro to Computer Security, Programming Languages, Theory of Computation, Introduction to Databases, Interactive Entertainment Engineering, Compiler Construction, Operating Systems, Artificial Intelligence, Research Senior Project in Migration Networks

SKILLS

Programming: Java, Python, C, ARM v8 Assembly, JavaScript, HTML, CSS, Racket, MySQL, C#, C++

Software Tools: Unix, git, Bash, Docker, Vue.js, TypeORM, Unity, Godot, NetworkX, LLVM

Spoken Languages: Intermediate Spanish, Basic Farsi

EXPERIENCE

Algorithms Student Researcher, Cal Poly SLO SURP

June 2024-Sept 2024

- Working alongside Professor Daniel Frishberg on a project to find empirical support for Monte Carlo Markov Chain mixing time algorithmic conjectures. My role involves writing C++ code to randomly sample independent sets in trees.

Migration Network Student Researcher, Cal Poly SLO

Jan 2024-Sept 2024

- Constructed a global migration network using NetworkX and UN data. Investigated the effects of a country's democratic index on where people migrate to and from.

Computer Science Tutor, Cal Poly SLO

Oct 2023-Present

- Tutoring other students in Cal Poly's CSC 101, 202, 203, 225, and 357 courses at the CSSE Tutoring Center.

PROGRAMMING PROJECTS

ARM Compiler for the Mini Language, Compiler Construction Partner Project

Languages and Tools Utilized: Java, ARMv8, LLVM

- Built a functional compiler in Java for a C-like language called Mini.
- Implemented static semantic analysis, LLVM intermediate representation generation, and ARMv8 generation.

Sun Bird, Interactive Entertainment Engineering Group Project

<https://emumangames.itch.io/sun-bird>

Languages and Tools Utilized: C#, Unity

- Developed a vertical scrolling shoot 'em up video game with 3 other people.
- Worked on the background procedural generation functionality, all sprites, all animations, and health bar functionality.

Social Recipe Website, Intro to Software Engineering Group Project

Languages and Tools Utilized: Vue.js, Node.js, Axios, Express.js, TypeORM

- Developed a social web app for user account creation, recipe posting with images, event creation by zipcode, account following, recipe browsing, and review posting.
- Solely responsible for recipe and review features (backend and frontend), individual recipe view, and account functionality. Collaborated with my team on other aspects.