

Schuyler Fenton

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Education

California Polytechnic State University — San Luis Obispo

Sep 2019 – Jun 2023

Bachelor of Science in Computer Science

GPA: 3.67 Major / 3.65 Overall — *Dean's List*: Winter, Spring, Fall 2022

Related Coursework: Introduction to Database Systems | Knowledge Discovery from Data | Introduction to Software Engineering | Artificial Intelligence | Introduction to Operating Systems

Certificates

AWS Certified Developer - Associate (DVA-C02) — Amazon, December 2024

Professional Experience

Boese Insurance Services

Feb 2024 – May 2024

Freelance Web Developer

- Deployed a new company site according to stakeholder requirements emphasizing user accessibility
- Scored **100 on PageSpeed Insights** in all desktop metrics for an accessible and responsive experience
- Delivered medium-fidelity prototypes designed in **Figma** to iterate rapidly according to feedback
- Engineered with **HTML, CSS, and Bootstrap**, utilizing Astro for component-driven static site generation

Arista Networks

Jun 2022 – Sep 2022

Software Engineering Intern

- Boosted network switch throughput to **up to 400 Gb/s** by introducing multi-lane configurations
- Managed interconnects between packet forwarding ASICs and FPGAs using **C++**
- Increased OS platform test coverage by expanding internal **Python** lab equipment tooling

Projects

Full Stack App to Visualize Home Renovations "Waller"

- Deployed an image segmentation model to **AWS Lambda** to mask walls of user images asynchronously
- Configured CI/CD of AWS resources using **Terraform** modules and **GitHub Actions** runners
- Managed file upload/retrieval tasks with AWS API Gateway, S3, and DynamoDB through HTTP endpoints
- Facilitated UI interactions using **React.js, TypeScript, and Tailwind**, using PixiJS to preview edited images

Natural Language Chatbot for the Cal Poly Curriculum "Cal Pass"

- Constructed an NLP model in **Python** to answer student queries about class and professor schedules
- Matched user queries with **over 80% accuracy** by training a Naive Bayes classifier using NLTK
- Consolidated 1k+ datapoints from HTML pages into **MySQL** using an ETL process for accurate responses
- Handwrote a custom training dataset with over 600 sample questions to effectively cover user queries

MERN Stack Item Renting App "Simply Rented"

- Developed a platform for renting personal items, using **React.js** to design a fully responsive front-end UI
- Built a RESTful API using **Express.js** to store and query user and item data in a **MongoDB** database
- Automated CI/CD using **GitHub Actions** runners to deploy our release branch to Heroku

Additional Skills

Relevant Languages: Python, C, TypeScript, JavaScript, HTML & CSS, Java, Kotlin, SQL, C++, Go, Bash
Relevant Technologies: Git, SQL & NoSQL DBMS, Node.js, Pytest, FastAPI, BeautifulSoup, Pandas, Scikit-learn, NumPy, Docker, Next.js, Playwright, Linux, Jira (using Agile methods)