

# David Sawires

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## EDUCATION

### Bachelor of Arts in Computer Science and Mathematics

St. Olaf College

May 2024

Northfield, MN

Cumulative GPA: 3.88/4.00, *magna cum laude*

- **Activities:** IIME Honor Society, Operating Systems Teaching Assistant, Software Design Teaching Assistant
- **Awards:** Davis United World College Scholar, St. Olaf Entrepreneurial Scholar, Dean's List
- **Relevant Coursework:** Algorithms, Computational Imaging, Data Structures, Foundations of AI, Operating Systems, Computational Geometry, Computational Mathematics, Graph Theory, Probability Theory

## EXPERIENCE

### Backend Software Engineer

Infracraft (Django, Flask, FastAPI, Python)

October 2023 – Present

San Francisco, CA (Remote)

- Developed Django data models and RESTful API endpoints for CRUD operations with sub 200ms response times.
- Created a Slack chatbot that triggers automated environment deployments and GitHub release processes.
- Implemented a FastAPI application for API interactions with GitHub, enabling file management, content updates, and automated release branch creation.
- Partnered on strategic direction and development approach.

### Software Engineer Intern

Bankbarn (Django, Python, pytest)

June 2023 – August 2023

San Francisco, CA

- Wrote and integrated **pytest** on-delete tests for Django models into CircleCI, increasing test coverage by 15%.
- Engineered a distributed logging and visualization solution via custom dashboards on Amazon CloudWatch.

### Lead System Administrator

St. Olaf College (**bash**, Linux, VMWare)

September 2021 – December 2022

Northfield, MN

- Lead infrastructure development, maintenance and user support for the College's CS department.
- Engineered remote access solution for ARM users facilitating support for x86-based workflows.

## PROJECTS

### Wearer

Swift, SwiftUI

- Created an iOS Application that utilized Core Location library to suggest clothing based on local weather.
- Designed a UI that displays weather conditions and clothing suggestions using OpenWeatherAPI data.

### Vectorizer

Python, SciPy, Numpy

- Developed an image vectorization program in Python to transform images into triangulated representations.
- Implemented a threshold-based edge detection algorithm, optimizing for detail clarity through visual comparison.

### Ethics of Chatbots

JavaScript, HTML, CSS

- Developed an interactive website on chatbot ethics using HTML, CSS, and JavaScript, ensuring a seamless user experience.
- Implemented a chat interface that interacts with the OpenAI API, designing the frontend and using a secure proxy server to handle API calls for sending and receiving messages.

### Chat App

C++, React, Python

- Designed and implemented a user-friendly interface for a cross-platform chatting app using React.
- Managed data interchange between frontend and backend of the chat application through a Python server.

## SKILLS

**Programming Languages:** Python, C, C++, R, JavaScript, HTML, CSS, bash, Mathematica, SQL, Swift

**Developer Tools:** Git, Docker, VS Code, Linux/Unix

**Libraries and Frameworks:** Django, FastAPI, Flask, Pandas, NumPy, Matplotlib, SciPy, pytest