

David Sawires

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EXPERIENCE

Backend Software Engineer

October 2023 – Present

Infracraft

San Francisco, CA

- Developed a Slack chatbot using Python Slack SDK, employing custom slash commands to interact with the backend.
- Designed and implemented API endpoints for seamless chatbot-backend integration.
- Partnered on user research for product needs and development approach.

Software Engineer Intern

June 2023 – August 2023

Bankbarn

San Francisco, CA

- Created and integrated pytest on-delete tests for Django models, guaranteeing data integrity and seamless CI/CD automation.
- Integrated Watchtower into the Django application to stream API logs to Amazon CloudWatch.
- Setup an AWS CloudWatch dashboard using queries to display key metrics, providing quick insights about traffic on the API server.

Lead System Administrator

September 2021 – December 2022

St. Olaf College

Northfield, MN

- Oversaw a team of 6 to provide IT infrastructure development & maintenance for the College's CS department.
- Performed software updates & patches on Linux servers, resulting in fewer outages & improved user experience.
- Launched 8 SSH servers to provide sand-boxed environments for development, resulting in 50% fewer technical interruptions.
- Managed static IP allocations through a Cisco network switch, ensuring optimal network performance.

EDUCATION

Bachelor of Arts in Computer Science and Mathematics

May 2024

St. Olaf College

Northfield, MN

GPA: 3.87/4.00

- **Activities:** Pi Mu Epsilon 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 for Decision Making, Analysis of Algorithms, Computational Geometry, Computational Imaging, Data Structures, Foundations of AI, Graph Theory, Operating Systems, Probability Theory, Software Design

International Baccalaureate Diploma

June 2020

United World College of Changshu China

Changshu, China

PROJECTS

Wearer

Swift, SwiftUI, OpenWeatherAPI

- Developed an iOS Application using Swift and SwiftUI that suggests clothing based on weather conditions.
- Incorporated the Core Location library to retrieve the user's current location.
- Visualized OpenWeatherAPI data to show local weather conditions and clothing suggestions.

Shelly

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- Developed a command line Linux shell that parses and executes user commands.
- The shell supported input redirection, output redirection, PATH search and changing current working directory.

SKILLS

Programming Languages (Sorted by Proficiency): Python, C/C++, R, bash, Mathematica, SQL, Swift, ARM Java, Assembly

Developer Tools: Git, Docker, VS Code, Linux/Unix, XCode, AWS

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