

Sloan Ireland

sloanireland1@gmail.com | linkedin.com/in/sloan-ireland | github.com/sloan-ireland | sloanireland.tech

EDUCATION

Occidental College

Bachelor of Arts in Computer Science

Los Angeles, CA

Expected May 2027

- **GPA** (as of Spring 2024): 3.75/4.0
- **Relevant Coursework:** Data Structures and Algorithms, Intro to Computer Science, Advanced Programming, Computer Organization, Calculus I and II, Linear Algebra, Discrete Math.
- **Honors and Awards:** Occidental Honors Scholarship, SCIAC All-Academic Team
- **Activities:** NCAA D3 Basketball, Oxy Open Source, Intervarsity Christian Fellowship

Stuyvesant High School

Advanced Regents Diploma

New York, NY

Sep 2019 – Jun 2023

- **Highlights:** AP Computer Science A, System Level Programming, Cybersecurity, AP Chinese

EXPERIENCE

Intern

California Native Vote Project

Sep 2023 – Dec 2023

Los Angeles, CA

- Collaborated with a nonprofit organization to design and develop a web-based interactive map to improve broadband access visibility for Native-American communities.
- Engineered the map from the ground up using Netlify, OpenStreetMaps API, and Leaflet.js, and successfully deployed it on a GitHub-hosted website.

Software Engineering Fellow

Headstarter AI

Jul 2024 – Sep 2024

Virtual

- Produced multiple AI projects, culminating in a final project aimed at developing a startup's backlog meeting to meet business requirements.
- Participated in weekly meetings and webinars with startup CEO and successful industry engineers to learn about creative solutions to fundraising, problem-solving abilities and technical proficiency

PROJECTS

JWT Token Vulnerability — JavaScript, HTML/CSS

May 2023 – Jun 2023

- Developed a web application to demonstrate and explore the manipulation of JSON Web Tokens (JWT) and their vulnerabilities.
- Hosted on a DigitalOcean Droplet in a CTF format to showcase security risks such as the non-algorithm attack and RSA vulnerability.
- Provided an educational platform for users to experiment with JWT token manipulation and understand the importance of secure token implementation.

Blackjack21 — Java, Processing

May 2022 – Jun 2022

- Developed an interactive single-player card game with actual card displays, allowing players to compete against a dealer with features like splitting and double-down bets.
- Implemented a betting system and game logic for hits, stands, and special plays using Processing and Java.

Banking System — C

Jan 2023

- Created a terminal-based application for managing banking operations, including creating accounts, depositing and withdrawing money, and transferring funds between users.
- Implemented user authentication, transaction history tracking, CSV file support for data management, and administrative functions for monitoring and controlling account activities.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C/C++, HTML/CSS, Processing, Bash

Developer Tools: Git, Visual Studio Code, Terminal, OpenStreets API, Google Analytics

Libraries: Leaflet