Noah Ross

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EDUCATION

Lafayette College, Easton, PA **Expected May 2026**
Bachelor of Science: *Electrical and Computer Engineering*, Minor: *Computer Science*

San Francisco University High School, San Francisco, CA **Graduated May 2022**

SKILLS

Technical: Java, Python, JavaScript, TypeScript, Dart, Kotlin, Docker, C, System Verilog, Assembly, HTML, CSS, Git, SQL, Bash, Linux
Languages: Fluent in English and Swedish, Conversational in Spanish

CLASSROOM EXPERIENCE

Digital Circuits I and II, Lafayette College **Spring 2023 - Fall 2023**
Studied digital circuits, System Verilog (FPGA Programming), MIPS architecture and assembly code, C / C++, processor design, controller datapath paradigm, cache architecture. Implemented single core MIPS processor on an FPGA using System Verilog.

Data Structures and Algorithms, Lafayette College **Fall 2023**

RELEVANT EXPERIENCE

Lafayette Motorsports Club, Easton, PA **September 2022 – Present**
Worked on building a Formula SAE electric race car. Focused on designing electrical systems, wiring the vehicle, testing components and manufacturing of the car. Currently working on the Vehicle Control Unit using the New Eagle Raptor Platform in Matlab Simulink.

Joinable Inc, San Francisco, CA **May 2023 – August 2023**
Worked on front and backend development at a social media platform. Used Dart with the Flutter framework on the frontend app and Typescript with Apollo GraphQL and MongoDB on the backend. Primarily fixed bugs, implemented new features and built new services.

PROJECT EXPERIENCE

Spaceona **May 2023 – Present**
Created a monitoring solution for washing machine usage at Lafayette College using microcontrollers connected to the machines, featuring custom PCBs, a NodeJS server for processing, a ReactJS web app, and Python for analytics. Developed a simulation test suite for accessing and improving vibration detection algorithms; used Bash scripts with Docker Compose and systemctl for deployment.

ClassBrowser **April 2022 – Present**
Built a web app to easily find Lafayette classes that fulfill common core requirements. Used python to scrape and parse data, used JavaScript / Svelte for front end end which enables extensive filtering and searching in addition to being faster than the original system.

Keylink **August 2023 – Present**
Built a real-time communication system to share controls for video games. Used ExpressJS, SocketIO and a Python client for the server, input website, and desktop client respectively. Achieved nearly imperceivable latency through the use of websockets.

Game Server Project **September 2020 – March 2023**
Launched and scaled Minecraft servers to 100,000+ users, generating $20,000+ in revenue. Engineered and managed robust infrastructure on bare metal and VPS across multiple clouds, fortifying against cyber threats with firewalls, CDNs, load balancers, and proxies to address active threat actors. Developed 150+ custom plugins in Java, Kotlin, SQL, and Redis for improved gameplay and anti-cheat measures. Built a player statistics website with NodeJS, MySQL, and SvelteKit, supported by real-time analytics. Utilized Grafana and Prometheus for advanced server monitoring and optimization. Successfully sold the networks in late 2022 / early 2023.

OTHER EXPERIENCE

Performance Ski, Aspen, CO **Winter 2022**
Assisted customers in selecting and renting ski gear. Delivered exceptional customer service through strong interpersonal skills. Contributed to sales by recommending suitable equipment and accessory upselling.

ACTIVITIES

Ski Team **September 2022 – Present**
Investment Club **September 2022 – Present**
Motorsports Club – Vehicle Control Unit Team **September 2022 – Present**