Noah Ross

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EDUCATION

Lafayette College, Easton, PA **Expected May 2026**
Majors (Dual Degree): **Electrical and Computer Engineering B.S., Computer Science A.B.**
Relevant Coursework: Data Structures and Algorithms, Analysis of Algorithms, Differential Equations, Probability and Statistics, Signals & Systems, Solid State Devices & Circuits, Digital Circuits I & II Computer Organization, Operating Systems, Embedded Devices

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

SKILLS

Programing: Java, C/C++, System Verilog, Python, SQL, MATLAB, Javascript/Typescript, Assembly (x86, MIPS), Dart
Technical: Linux, Git, Docker, React, Flutter, PyTorch, GraphQL, SPICE (LTSpice, etc), KiCad, Altium, AWS, GCP, Oracle Cloud
Languages: Fluent in English and Swedish, Conversational in Spanish

EXPERIENCE

Joinable, San Francisco, CA **May 2023 – August 2023**
Software Engineering Intern
Fullstack software engineering for a startup social media platform using TypeScript, Express.js,Dart/Flutter, GraphQL, and MongoDB on AWS. Developed a QR code profile sharing and invitation feature. Built an Open Graph image service to enhance shared link previews, supporting app growth and user acquisition. Implemented the 'Circle' invitation system, enabling group management. Diagnosed and resolved bugs, conducted regression testing, and ensured reliable operation of business-critical functionality.

PROJECTS

Quadcopter Flight Controller (Embedded Devices) **December 2024**
Led the end-to-end development of a Raspberry Pi Pico-based quadcopter flight controller in C++. Architected the top-level hardware and software designs. Implemented key subsystems including the ExpressLRS radio system and the electronic speed controller. Assisted with sensor integration (gyroscope, etc). Developed the top-level firmware and assembled the final quadcopter.

FPGA Projects (Digital Circuits) **January 2023 – December 2023**
Completed numerous FPGA projects using System Verilog on Xilinx FPGAs. Designed, simulated and programmed FPGAs in Vivado. Projects included a pipelined-multicycle MIPS processor and a health monitor complete with blood oxygen and heart rate tracking.

Security Research **May 2024 – Present**
Discovered and reported 100+ security vulnerabilities. Awarded by several bug bounty programs, including OpenAI, for critical contributions to security. Developed software tools in Python and Javascript for web scraping and security analysis.

Spaceona.com, Easton PA
Technical Lead / Advisor **May 2023 – Present**
Led a technical team to build a monitoring solution for washing machine usage at Lafayette College using microcontrollers, custom PCBs, Node.js, React and Python. Developed a simulation test suite for assessing and improving vibration detection algorithms.

Game Server **September 2020 – March 2023**
Launched, developed and grew a Minecraft server network to **100,000+ users**. Architected and deployed infrastructure across multiple cloud environments to maintain stability and mitigate targeted cyberattacks. Developed 150+ plugins (game improvements) in Java, Kotlin. Deployed Grafana and Prometheus to track project metrics. Sold the project in late 2022/early 2023.

Fakepaper.app **April 2024 – Present**
Designed and launched an AI-powered tool that generates satirical, academic-style research papers, using Next.js, React, Express.js, and AWS S3. Attracted over **10,000 visitors** and generated thousands of satirical papers within the first months of launch.

CAMPUS ACTIVITIES

Clubs and Activities: Competitor in International Collegiate Programming Contest, Ski Team, and Formula SAE; Member of ACM, IEEE, and Investment Club; Treasurer of Delta Tau Delta Nu chapter.