Gavin D. Milligan

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EDUCATION

University of California, Irvine   *B.S. in Software Engineering*   **Graduating In March 2026**

- **Courses:** Java Programming, C++ Programming, Data Structures & Algorithms, Design and Analysis of Algorithms, Computer Architecture, Computational Linear Algebra, Software Testing, Boolean Logic & Discrete Mathematics

EXPERIENCE & LEADERSHIP

NinjaTrader (Acquired by Kraken)   **Chicago, IL**

Software Engineer Intern   *May 2025 - July 2025*

- Used Playwright with an MCP server to scan and standardize DOM structures, create reusable maps, and validate user credentials and financial workflows
- Created an automated workflow leveraging AI that generates test cases for new PRs by aggregating context from internal systems, reducing DevOps effort from **1** hour of manual work to under **2** minutes with low-cost AI agent calls
- Engineered robust, general purpose, internal tools with with a simple model view controller architecture in ExpressJS

Myfye.com   **Irvine, CA**

Technical Cofounder, Full Stack, Cybersecurity, Blockchain   *February 2024 - September 2025*

- Created a secure banking application, focused on blockchain abstraction and tokenized RWAs, such as U.S. Treasury bills and stocks (Apple, Google, etc), securing a win and **$10,000** prize at the Solana Colosseum Hackathon
- Developed sponsored transactions by creating a transaction object, sending it to a secure backend for signing, and then back to the frontend to be signed again by the users' embedded wallet, eliminating fees for users
- Optimized transactional processing latency by engineering a high-performance system for atomic data exchange, achieving an average **0.9**-second, independently verifiable, and final data commit on a distributed ledger
- Built a deposit and withdraw service using Paypal, Privy and Coinbase Onramp

Blockchain At UCI   **Irvine, CA**

Technical Lead   *June 2023 - May 2025*

- Engineered the architecture for a secure rental marketplace, securing a victory at the EthDenver '25 hackathon
- Managed open source GitHub repositories by assigning tasks, approving pull requests, and overseeing branch management for a team of **12** developers, after conducting over **30** technical interviews and selecting the best

Coder School   **Irvine, CA**

Code Coach   *August 2024 - January 2025*

- Taught *Python*, *C++ and HTML/CSS* to students grades 1-10, creating lesson plans to match their skill levels and provided 1:1 support to address challenges and improve understanding

PROJECTS

FinFriend.com | *Swift, Java, React, Bitcoin, Cybersecurity*   *October 2022 - August 2023*

- Built a create-your-own-currency platform for **iOS**, **Android**, and the **web** that has made over **$1,000** in revenue and has seen over **100** currencies launched
- Engineered a digital asset exchange with advanced computer science techniques that has traded **$5,000** in volume

Bitcoin Node | *Linux, Bitcoin, SSH*   *June 2022*

- Built a full Bitcoin node on a dedicated Raspberry Pi, installing and configuring the **Linux OS** from scratch, demonstrating proficiency in Linux System Admin, network configuration and long-term system monitoring.
- Engineered a secure shell (SSH) server using Python, encrypted command line access and network protocols

SKILLS

Languages: Python, Java, C++, JavaScript, HTML, CSS, Swift

Tools / Frameworks: AWS, Google Cloud, REST API, React, Redux, Git, Apache, NodeJS, Solana, Bitcoin, Ethereum,