# 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 Development Engineer in Test (Intern)*  *May 2025 - July 2025*

- Created an automated workflow using AI agents and Zephyr to generate test cases for each new pull request company-wide, reducing QA effort from **1 hour** to **< 2 minutes**, while keeping compute costs low
- Developed JavaScript modules leveraging Playwright and an MCP server to parse DOM structures, create reusable maps, and support scalable automated test execution used by **10+** engineers
- Built robust API endpoints for internal tools using an MVC architecture (Express.js) for the DevOps and QA teams

**Myfye.com**  **Irvine, CA**

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

- Built a secure financial application, focused on blockchain-abstracted asset transfers, enabling tokenized representations of U.S. Treasuries and equities; won **$10k** 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 user's embedded wallet, eliminating fees for users
- Optimized transactional processing latency by engineering a high-performance system for network data exchange, achieving an average **0.8-second**, independently verifiable and final data commit on a distributed ledger
- Built a deposit and withdrawal 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 in grades 1-10, creating lesson plans to match their skill levels and providing 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 **$1k in revenue** and has seen over **100 currencies** launched
- Engineered a digital asset exchange with advanced computer science techniques that has traded **$5k 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 & ATTRIBUTES

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

**Tools / Frameworks:** AWS, Google Cloud, REST APIs, React, Redux, Git, Apache, Kafka, NodeJS, Solana, Bitcoin, Ethereum, Base, Artificial Intelligence, Bash, Docker, UML Diagramming, Object-Oriented Design, Software Development Lifecycle (SDLC), Unit Testing / Integration Testing, Quality Assurance, Automation, Jira, Confluence, Scrum, Agile, Postgres

**Work Authorization:** U.S. Citizen, Eligible for Secret clearance