

Gavin D. Milligan

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EDUCATION

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|---|-------------------------------------|---------------------------------|
| University of California, Irvine | <i>B.S. in Software Engineering</i> | Graduating in March 2026 |
| <ul style="list-style-type: none">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

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| NinjaTrader (Acquired by Kraken) | Chicago, IL |
| <i>Software Engineer Intern</i> | <i>May 2025 - July 2025</i> |

- Created an automated testing workflow using AI agents that generated test cases for each new pull request in the organization, reducing QA effort from over **1 hour** to under **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 automated test execution at scale
- Contributed robust, general-purpose, internal tools using an MVC architecture (ExpressJS)

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| Myfye.com | Irvine, CA |
| <i>Technical Cofounder, Full Stack, Cybersecurity, Blockchain</i> | |

- Built a secure financial application, focused on blockchain-abstracted asset transfers, enabling tokenized representations of U.S. Treasuries and equities; won **\$10,000** 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 **0.9-second**, independently verifiable and final data commit on a distributed ledger
- Built a deposit and withdrawal service using PayPal, Privy and Coinbase Onramp

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| Blockchain At UCI | Irvine, CA |
| <i>Technical Lead</i> | |

- 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

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| Coder School | Irvine, CA |
| <i>Code Coach</i> | |

- 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

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| FinFriend.com <i>Swift, Java, React, Bitcoin, Cybersecurity</i> | <i>October 2022 - August 2023</i> |
| <ul style="list-style-type: none">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 launchedEngineered a digital asset exchange with advanced computer science techniques that has traded \$5,000 in volume | |

- 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, 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

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