

# Gavin D. Milligan

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## EDUCATION

|   |                                     |                                 |
|---|-------------------------------------|---------------------------------|
| <b>University of California, Irvine</b>   | <i>B.S. in Software Engineering</i> | <b>Graduating in March 2026</b> |
| <ul style="list-style-type: none"><li><b>Courses:</b> Java Programming, C++ Programming, Data Structures &amp; Algorithms, Design and Analysis of Algorithms, Computer Architecture, Computational Linear Algebra, Software Testing, Boolean Logic &amp; Discrete Mathematics</li></ul> |                                     |                                 |

## EXPERIENCE & LEADERSHIP

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

- 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

|  |                                       |
|--|---------------------------------------|
| <b>Myfye.com</b>   | <b>Irvine, CA</b>                     |
| <i>Technical Co-Founder, Full Stack, Cybersecurity, Blockchain</i> | <i>February 2024 - September 2025</i> |

- 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

|                          |                             |
|--------------------------|-----------------------------|
| <b>Blockchain At UCI</b> | <b>Irvine, CA</b>           |
| <i>Technical Lead</i>    | <i>June 2023 - May 2025</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

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Coder School</b> | <b>Irvine, CA</b>                 |
| <i>Code Coach</i>   | <i>August 2024 - January 2025</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

|  |                                   |
|--|-----------------------------------|
| <b>FinFriend.com</b>   <i>Swift, Java, React, Bitcoin, Cybersecurity</i>   | <i>October 2022 - August 2023</i> |
| <ul style="list-style-type: none"><li>Built a create-your-own-currency platform for iOS, Android, and the web that has made over <b>\$1k in revenue</b> and has seen over <b>100 currencies</b> launched</li><li>Engineered a digital asset exchange with advanced computer science techniques that has traded <b>\$5k in volume</b></li></ul> |                                   |

- 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