

Gavin D. Milligan

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EDUCATION

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

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

- 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
- Contributed robust, general-purpose, internal tools with a simple model view controller architecture in ExpressJS

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

- 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 withdrawal service using Paypal, Privy and Coinbase Onramp

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

- 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
<i>Code Coach</i>	

- 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 <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	

Bitcoin Node <i>Linux, Bitcoin, SSH</i>	<i>June 2022</i>
<ul style="list-style-type: none">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 API, React, Redux, Git, Apache, NodeJS, Solana, Bitcoin, Ethereum, Base, Jira, Artificial Intelligence, Bash, Docker, Agile, UML Diagramming, Object-Oriented Design, Software Development Lifecycle (SDLC), Unit Testing / Integration Testing, Quality Assurance, Automation, Jira, Confluence, Scrum, Agile

U.S. Citizen, Eligible for secret clearance