

# Gavin 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 Engineer Intern</i>	<i>May 2025 - July 2025</i>

- 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, API endpoints to be used as internal tools for automation that have been adopted by more than **10** software engineers on the DevOps and QA teams
- Built AI agents with Playwright MCP to scan and standardize DOM structures, creating reusable maps, and validate user credential and financial workflows integrated into CI/CD pipelines

<b>Myfye.com</b>	<b>Irvine, CA</b>
<i>Cofounder - Backend, Network and Cybersecurity Engineer</i>	<i>June 2024 - May 2025</i>

- Created a secure banking application, focused on network 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

<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 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 grades 1-10, creating lesson plans to match their skill levels and provided 1:1 support to address challenges and improve understanding

<b>PROJECTS</b>	
<b>Web Crawler</b>   <i>SSH, Big Data, Multi-threading, Python</i>	<i>November 2025</i>

- Developed a high-performance, concurrent web crawler discovering **70,000** urls and creating impactful analytics

<b>FinFriend.com</b>   <i>Swift, Java, React, Bitcoin, Cybersecurity</i>	<i>October 2022 - August 2023</i>

- 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** free trial currencies launched
- Engineered a digital asset exchange with advanced computer science techniques that has traded **\$5,000** in volume

<b>Bitcoin Node</b>   <i>Linux, Bitcoin, SSH</i>	<i>June 2022</i>

- 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