

# PAUL MARTIN ENANO

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## EDUCATION

**Boston University**, *B.A. in Computer Science*

*May 2025*

*Relevant Coursework:* Data Structures and Algorithms, Computer Networks, Database Systems, Probability, Linear Algebra, Computer Systems, Machine Learning, Full Stack Development, Blockchain Applications

## PROFESSIONAL EXPERIENCE

**Capital One** — *Software Engineer*

*Incoming February 2026*

**Dominion Capital** — *Software Engineer Intern*

*June 2025 - Present*

- Automated deal consistency checks reducing manual review time 60% using n8n, Langchain, and pgvector.
- Built and deployed 20-page CMS site from Figma with Rails, and Kamal, cutting load times 40% via caching.
- Improved reliability and security by adding RSpec tests, authentication, and Rails best practices across services.

**Abstruse** — *Software Engineer Intern*

*September 2024 - December 2024*

- Engineered Jest tests for 30+ React components, achieving 60% test coverage and catching 12+ bugs pre-deploy.
- Developed AI agent with RAG and embeddings to index tickets, PRs, and docs, enabling devs to query changes.

**Gilder Gagnon Howe & Co.**, *Equity Research Analyst Intern*

*May 2024 - July 2024*

- Built Go tool to parse 100+ SEC filings, reducing analysis time by 70% and aiding 5+ stock pitch decisions.
- Produced detailed reports and pitched stocks, directly influencing investment strategies and portfolio decisions.

**TagPros** — *Software Engineer Intern*

*January 2024 - April 2024*

- Built an AI-driven platform with OpenAI to generate teaching materials, improving alignment accuracy by 25%.
- Implemented an extendable autograder using PyTest, Jest, and Docker, saving ~7 hours weekly for teachers.

## PROJECT EXPERIENCE

### Secure Batch-Based DEX with Enclave-Backed Sequencing

- Created a privacy-preserving AMM (Solidity, OpenZeppelin) with Nitro Enclaves on AWS EC2, granting confidential batch swaps, cryptographic attestation, and automated enclave deployment via Docker/Nitro CLI.
- Developed full-stack dApp (React, ethers.js) with enclave-backed sequencing, secp256k1 key management, and REST API endpoints for secure swap/attestation, executing swaps, liquidity management, and verifiable proofs.

### Go-based Raft Consensus Algorithm

- Implemented Raft with gRPC across 5-node clusters, sustaining 5.4k writes/sec at commit latency of 45 ms.
- Simulated node crashes to verify log consistency and recovery, achieving stable reelection within 150–300ms.
- Logged heartbeat intervals, election terms, and commit indexes to monitor clusters and debug election instability.

### Go-Back-N and Selective Repeat ARQ Simulator

- Built and simulated ARQ protocols over UDP with 100% delivery in 1,000 tests under 10% packet loss/corruption.
- Reduced average RTT by 9.7% by integrating SACKs into Go-Back-N, optimizing full-window retransmissions.
- Automated performance testing in 6 RTO configurations (20–500 ms) with custom tests and Matplotlib plots, enabling identification of optimal time-out trade-offs between throughput and retransmission overhead.
- Validated 0.013 pkts/ms throughput and 0.005 pkts/ms goodput with 90% confidence across 3 randomized seeds.

## SKILLS AND INTERESTS

**Languages:** Python, Go, Java, Ruby, Solidity

**Technologies:** React, PostgreSQL, MongoDB, Django, Flask, Rails, Redis, Jest, HTML/CSS

**Tools:** Git, GitHub, AWS, Docker, Kubernetes, Bash, Linux, Unix, cURL, REST

**Interests:** Calisthenics, Volleyball, Cello, Poker, Chess (Rated 2000 Chess.com rapid)