Tyler Collo

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Education

George Washington University — Expected Graduation: May 2027
Bachelor of Science, Computer Science — *Major GPA: 3.8/4.0*

Experience

Capital One — June 2026 – August 2026
Software Engineer Intern — *Chicago, IL*

- Built a spend limits engine for 300–400 card transactions/second, enabling $10M in annual cost avoidance
- Authored Drools rules over 7 transaction features, enabling approve/decline decisions in under 18 ms
- Deployed 4 payment services across 12 QA/prod environments using Jenkins and AWS CloudFormation
- Wrote Python tests across 3 migration modes, mocking mainframe, GraphQL, and PostgreSQL dependencies

Capital One — June 2025 – August 2025
Software Engineer Intern — *McLean, VA*

- Reduced rule deployment from days to under one hour for Axon platform (18M annual interactions)
- Architected a serverless API (AWS Lambda, DynamoDB) achieving sub-200ms latency for CRUD operations
- Built rule serialization and JSON schema validation across 50+ conditions, tested with Vitest at 90% coverage

Gyfr — September 2024 – May 2025
Software Engineer Intern — *Remote*

- Achieved a 45% session acceptance boost by building a notification system with timed escalation & batching
- Owned full-stack development of core monetization feature for tiered revenue using React, TS, and Firebase
- Eliminated scheduling conflicts for 200+ users through automated real-time booking validation

Projects

Sky In Print | *Python, Polars, PyArrow, Hugging Face*

- Built a pipeline searching 349M historical newspaper articles for meteorite falls missing from catalogs
- Classified 245K candidate articles with an open-weight 35B LLM at 98% recall on 46 known US falls
- Found a misclassified meteorite, leading the Meteoritical Society to reclassify it as an observed fall

Go Rot | *JavaScript, Node.js, Chrome Extensions, Native Messaging, OpenTelemetry*

- Shipped a Chrome extension and macOS app that opens short-form feeds while Claude Code and Codex work
- Coordinated concurrent sessions over local IPC, restoring agent focus and feed state on permission handoffs
- Built a Native Messaging bridge with sub-60 ms p95 delivery while keeping prompts and source code local

Dogma | *Swift, SwiftUI, SwiftData, Supabase, PostgreSQL, TypeScript*

- Shipped a native SwiftUI/SwiftData iOS app to the App Store, driving 7,600+ comparisons across 80+ users
- Designed an adaptive Elo engine with provisional and staleness-aware K-factors for a 570-item catalog
- Built offline-first SwiftData/PostgreSQL sync with debounced writes and last-write-wins resolution

Technical Skills

Languages: Java, Python, TypeScript/JavaScript, Go, Swift, C++, SQL
Frameworks: Node.js, React, SwiftUI, FastAPI, Flask, PyTorch
Tools: AWS, Lambda, DynamoDB, CloudFormation, PostgreSQL, MongoDB, Docker, Jenkins, Git, Linux