Ethan Perry

ethanperry.me | ethan.perry03@gmail.com | linkedin/in/ethan-perry03 | github.com/ethanperry03

Experience

Software Developer 1 (Python) Oct 2025 – Nov 2026

Mascoma Technologies *Remote*

- Refactored 9 sync workflows across 2 microservices to the Temporal Python SDK, adding durable execution and automatic retries to keep downstream systems in sync during the legacy CRM to Salesforce migration
- Migrated 75 million legacy check image mappings from S3 to PostgreSQL (psycopg) for a core banking vendor cutover with zero data loss, using an idempotent process that archived processed files and was load tested with MinIO locally and at scale in UAT
- Partnered with architects and business analysts to design, build, test, and deploy a check image search service that unblocked the core banking vendor cutover for 5 downstream microservices
- Automated daily validation of tens of thousands of synced customers and accounts across core banking systems with SQL, Python, and Kubernetes CronJobs, flagging out-of-sync fields which led to at least 8 sync bug fixes
- Standardized structured logging with a Loguru wrapper and added OpenTelemetry traces, metrics, and logs across 10 microservices, enabling end-to-end request tracing and visibility into which consumers call each endpoint
- Designed Prometheus success/failure metric patterns for endpoint operations across 50+ microservices, built Grafana dashboard panels from them, and used that data visibility to tune load balancers and pod resources
- Owned maintenance of 10 microservices on a 6-person team, triaging production issues via incident.io, ArgoCD, CloudWatch, and X-Ray, and shipping pytest and UAT-validated fixes for bugs and security vulnerabilities to maintain SOC 2 compliance

Computer Science and Mathematics Peer Tutor Jan 2022 – May 2025

Wheaton College *Norton, MA*

- Tutored students across 8 math and computer science courses, tailoring explanations of technical concepts to each learner's level and supporting more than 25 unique students per semester
- Organized students into collaborative study sessions with fellow tutors to encourage peer learning, and improved my own coaching through session logs and monthly workshops on active listening and feedback

Projects

Student Marketplace App | *Node.js, Express, MongoDB, TypeScript, RESTful API* Jan 2025 – May 2025

- Built a RESTful back end with Node.js, Express, and MongoDB, using JWT authentication to protect every user account and listing route from unauthorized access
- Designed MongoDB schemas for users, listings, and chats with buyer and seller roles, enabling each listing to resolve its seller and conversation history in a single query
- Integrated the Gemini AI API to parse item photos and auto-fill listing forms, reducing the time to create a listing from several minutes to several seconds
- Implemented WebSocket-based real-time chat so buyers and sellers can negotiate without leaving the app

Full-Stack Photobook Emulator | *JavaScript, PHP, MySQL, HTML/Bootstrap* Nov 2023 – Dec 2023

- Developed a photo album creation web app using HTML/Bootstrap, JavaScript, PHP, and MySQL, with a save/restore system for user progress built on a relational schema and JavaScript cookies
- Optimized database schema and queries to speed up data retrieval by 50%
- Built a secure login flow in PHP and MySQL, hashing stored passwords and validating credentials server-side

Education

Wheaton College Massachusetts Aug 2021 – May 2025

Bachelor of Arts in Computer Science, GPA 3.98/4
Bachelor of Arts in Mathematics, GPA 3.97/4
Relevant Courses: *Software Engineering, Web Development, Data Structures, Algorithms, AI/Machine Learning*

Technical Skills

Languages: Python, SQL, TypeScript, JavaScript, C/C++, Bash
Backend & Data: Falcon, Temporal, PostgreSQL, REST/SOAP APIs, Node.js, Express, MongoDB, MySQL
Cloud & DevOps: Docker, Kubernetes, ArgoCD, GitHub Actions, AWS (S3, CloudWatch, X-Ray), MinIO
Observability & Tools: OpenTelemetry, Prometheus, Grafana, incident.io, Snyk, Git, Jira, Claude, Postman, pytest