

Sawyer Czupka

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Full-stack software engineer with 2+ years building and owning production systems end-to-end — REST APIs, React frontends, cloud infrastructure, and CI/CD pipelines — across startup, research, and enterprise environments.

SKILLS

Languages & Frameworks

Python, TypeScript, JavaScript, Java, C++, Rust, React, Vue, FastAPI, Django, SQLAlchemy, PostgreSQL, TimescaleDB, MongoDB, TanStack Query, REST APIs, OpenAPI/Swagger, Git

Infrastructure & DevOps

Docker, Kubernetes, Terraform, Packer, ArgoCD, GitHub Actions, CI/CD, Azure, AWS, AWS Lambda, Prometheus, Grafana, Traefik, Nginx, Linux, Let's Encrypt

EDUCATION

College of William & Mary

Bachelor of Science (B.S.) in Computer Science & Data Science, Cum Laude & Dean's List

Sept. 2021 – May 2025

GPA: 3.6

Relevant Coursework: Cloud Computing, Cybersecurity, Neural Networks, Natural Language Processing

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Luminexis AI / Threat Tec

Aug. 2025 – Dec. 2025

- Served as sole engineer owning the entire stack; designed and built a production React/TypeScript + FastAPI platform from scratch with JWT authentication, role-based access control, multi-tenant licensing, admin dashboards, and real-time business process monitoring.
- Engineered automated document processing pipeline integrating Azure OpenAI and Document Intelligence to extract structured data from 140+ contract PDFs, reducing manual review from hours to minutes; built embeddable chatbot widget with domain-whitelisting authentication deployable via a single script tag.
- Provisioned 4-environment Azure infrastructure (Dev, Staging, Demo, Production) using Terraform IaC with shared reusable modules managing Container Apps, PostgreSQL, Key Vault, AI Foundry, and private networking.
- Implemented GitHub Actions CI/CD pipeline automating test, build, and deployment workflows across all environments, eliminating manual release steps.

Machine Learning & Software Engineer, Teamculture.ai / L10.tech

Jan. 2024 – Sept. 2024

- Built serverless evaluation pipeline on AWS Lambda and API Gateway, replacing manual testing workflows with fully automated, event-driven execution that scaled to zero during idle periods.
- Designed Vue/FastAPI web interface for evaluation management and golden dataset curation, enabling systematic quality tracking and continuous improvement of AI services at scale.

Machine Learning Technical Lead, GeoLab @ William & Mary

Jan. 2023 – May 2025

- Led technical integration across frontend, backend, and ML subteams for SCOPE research platform, defining system architecture and coordinating end-to-end implementation across distributed teams.
- Architected microservice-based system on Kubernetes separating API, model inference (vLLM), and document processing concerns for independent scaling; built custom document pipeline achieving 50%+ reduction in parsing errors on complex PDFs vs. conventional tools.

Machine Learning & Software Engineer Intern, The World Bank & GEF

May 2023 – Sept. 2023

- Built automated document analysis system processing 24,000+ project files, enabling data-driven impact evaluation and strategic funding allocation decisions at scale for the first time.

PERSONAL PROJECTS

LapEvo: iRacing Telemetry Tracker & AI Racing Coach

Jan. 2025 – Present

- Architected real-time data pipeline ingesting simulator telemetry at 60Hz using a Rust client with thread-safe async event-driven processing and FastAPI/TimescaleDB backend for efficient time-series storage and querying.
- Built full-stack React 19/TypeScript monorepo with auto-generated OpenAPI client (Orval), Docker Compose orchestration, and pytest/testcontainers integration tests enabling reliable CI/CD without live game dependencies.

Personal Homelab Infrastructure

July 2023 – Present

- Operate production-grade homelab with 6 VMs and 116-pod Kubernetes cluster on Proxmox, hosting services behind Traefik with Let's Encrypt TLS; manage full IaC stack using Packer, Terraform, and ArgoCD for GitOps-based continuous deployment.