

SKILLS

- **Languages:** Python, Go, JavaScript, TypeScript, Java, SQL
- **Frameworks:** Next.js, React.js, Node.js, Express.js, Angular.js, Flask, Cypress, TailwindCSS
- **Architecture:** Distributed Systems, Microservices, Event-Driven Architecture, Cloud-Native Applications, Observability
- **Tools:** Git, Docker, Kubernetes, Kafka, Redis, Neo4J, Prometheus, Thanos, Grafana, PromQL, Skupper
- **Cloud Platforms:** AWS (EC2, S3, Lambda, SageMaker), GCP (Compute Engine, Cloud Run, BigQuery), IBM Cloud (OpenShift)
- **AI/ML:** OpenAI SDK, Claude Code SDK, WatsonX, LLMs, Retrieval-Augmented Generation (RAG)
- **Certifications:** [IBM Enterprise Design Thinking Practitioner](#) | [IBM Blockchain Essentials](#) | [IBM Developer Jumpstart](#)

WORK EXPERIENCE

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| IBM Software Engineer <u>Hybrid Cloud Mesh Team</u> | Aug 2023 - Current Raleigh, NC |
| <ul style="list-style-type: none">▪ Built and enhanced observability microservices integrating Prometheus and Thanos for large-scale metric ingestion, enrichment, and long-term storage, enabling real-time performance insights across multi-cloud and on-prem environments.▪ Owned and configured Prometheus remote-write pipelines end-to-end -- from scraping to middleware enrichment to Thanos -- enabling a unified, topology-aware view of mesh resources via Skupper.▪ Designed and built PromMocker, a full Prometheus remote-write mocker that simulates metric ingestion for multi-cloud Skupper mesh environments, eliminating the requirement to deploy real gateways for testing. PromTool automates resource creation and metric generation across tenants and is now used daily across engineering teams and integrated into QA pipelines as a default testing harness.▪ Designed and deployed an AI-powered RAG chatbot using IBM WatsonX with custom vector search over internal Mesh documentation, improving troubleshooting speed and reducing time-to-resolution for both clients and engineering teams. | |
| IBM Software Engineer Intern <u>Cloud Expert Labs Team</u> | May 2022 - Sep 2022 Remote |
| <ul style="list-style-type: none">▪ Built secure authentication UIs using TypeScript, Next.js, and Node.js, integrated with IBM Cloud Identity and IBM Carbon Design.▪ Implemented REST APIs with Express, enabling end to end user authentication flows, including MFA, password resets, and email-based login recovery.▪ Automated retailer onboarding workflows with Python, reducing manual processing by ~75% and accelerating customer onboarding.▪ Improved product reliability by developing and deploying Cypress E2E tests from scratch into our CI/CD pipeline, reducing deployment bugs and ensuring seamless delivery of new features. | |

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| Leidos Software Engineer Intern <u>Annex Intelligence Division</u> | June 2021- Dec 2021 Reston, VA |
| <ul style="list-style-type: none">▪ Collaborated with the Annex Intelligence team to design, develop, and deploy web and mobile applications for the US NCTC, supporting critical counter-terrorism initiatives by enhancing operational capabilities and data accessibility▪ Improved backend performance and data retrieval lookup times by optimizing Elasticsearch indexing and query patterns▪ Streamlined CI/CD pipelines using Docker, GitLab, and SonarQube, reducing build and deployment times by 30% and enhancing software quality through automated API testing and integration with Postman.▪ Created automated Postman-based API tests that increased integration reliability and improved quality across annex workflows. | |

RECENT PROJECTS

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| TinyOBS Github | Nov 2025 |
| TinyOBS is an open-source, Go-based observability tool with an embeddable SDK, a Badger-backed datastore, and a real-time dashboard for endpoint-level performance metrics. | |
| Peerfolio Github | Jun 2025 |
| Peerfolio.org is a social investment platform in development that integrates with Plaid to aggregate brokerage accounts, enabling users to track portfolios, compare with friends, and explore investing trends. | |
| YTRecap Github | Mar 2023 |
| YTRecap.org is a web app built using Python Flask that can summarize any YouTube video by parsing the video for its closed captions and passing them to an NLP large language model | |

EDUCATION

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| University of Pittsburgh Bachelor of Computer Science (Honors) | May 2023 Pittsburgh, PA |
| Coursework: Algorithmic Implementation, Data Structures, Discrete Structures, Assembly Language, Intermediate Programming, Computer Organization, Software Engineering, Web-Development, Artificial Intelligence, Systems Software, Formal Methods in Computing, Operating System, Database Management Systems, Quality Assurance, Big Ideas in Computing | |