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## 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, Instana, LogDNA, Redis, Neo4J, LLMs
- **Cloud Services:** AWS (EC2, S3, Lambda, SageMaker), GCP (Compute Engine, Cloud Run, BigQuery), IBM Cloud, OpenShift
- **Other Tools:** Kafka, Redis, WatsonX.ai, PromQL, Cypress, Skupper, Prometheus, Thanos, Grafana, RAG-based AI
- **Certifications:** [IBM Enterprise Design Thinking Practitioner](#) | [IBM Blockchain Essentials](#) | [IBM Developer Jumpstart](#)

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## WORK EXPERIENCE

**IBM** **Aug 2023 - Current**  
Software Engineer Research Triangle Park, NC

[Hybrid Cloud Mesh Team](#)

- Designed and launched an **AI-infused** Retrieval-Augmented Generation (RAG) chatbot using **IBM WatsonX.ai** including custom **vector search** over Hybrid Cloud Mesh documentation, providing engineers with contextual, conversational troubleshooting assistance and accelerating issue resolution.
- Developed and refined observability microservices for [Hybrid Cloud Mesh](#), integrating **Prometheus** and **Thanos** for large-scale metric ingestion, long-term storage, and real-time insights. These metrics are enriched with product specific data enabling a contextual, unified topological view of mesh resources across on-prem and multi-cloud environments via **Skupper**.
- Configured and managed **Prometheus** agents for remote writing metrics to **middleware**, establishing the flow log pipelines from metric scraping to enrichment up until long-term storage in Thanos, with **Grafana** used for visualizing these queries.
- Increased code coverage of observability microservices to **80%** and wrote end-to-end tests for durability and integration testing, ensuring robust and reliable performance before general availability (GA) release.

**IBM** **May 2022 - Sep 2022**  
Software Engineer Intern Remote

[Cloud Expert Labs Team](#)

- Designed and implemented secure, branded login pages using **TypeScript**, **Next.js**, and **Node.js**, integrating with IBM Cloud services and adhering to IBM Carbon Design standards to enhance user authentication and security
- Implemented secure **REST APIs** with **Express**, enabling end to end user authentication flows, including password resets, email notifications, multi-factor authentication, adhering and enhancing to IBM system security standards
- Automated retailer onboarding workflows with Python, reducing manual data entry time by over **75%**, improving operational efficiency and accelerating time-to-market for new clients
- 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.

**Leidos** **June 2021 - Dec 2021**  
Software Engineer Intern Reston, VA

[Annex Intelligence Division](#)

- 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
- Developed key features for web portals using **Vue.js**, **Node.js**, **ElasticSearch**, and **S3**, improving data processing efficiency and enhancing the user experience for intelligence analysts.
- 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.
- Led **cross-functional integration efforts**, coordinating with various teams to ensure seamless application deployment, resulting in improved operational efficiency for national security efforts.

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## RECENT PROJECTS

**YTRecap** [Github](#) **March 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

**Peerfolio** [Github](#) **June 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.

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## EDUCATION

**University of Pittsburgh** **May 2023**  
**Bachelor of Computer Science** 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

**Honors:** Cum Laude