

## SKILLS

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**Languages:** Python, TypeScript, Java, Rust, C++, Gleam

**Frameworks:** Flask, Node.js, React

**ML/AI:** Keras, PyTorch, Hyper-parameter Optimization, Bayesian Optimization

**Databases:** MySQL, MongoDB, DynamoDB

**Cloud:** Google Cloud (Compute Engine, Cloud Storage, Vertex AI), AWS (EC2, S3, DynamoDB)

## EMPLOYMENT

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### LexisNexis Legal & Professional

Raleigh, NC

*Senior Data Scientist I*

*May 2024 - Present*

- **Performance improvements:** Improved customer-facing product runtime by 24.8% and reduced peak memory usage duration by 21.3%. Helped improve complaint drafting results by 115% and motion drafting by 28.4% of usefulness.
- **Leadership:** Led initiative to use Bayesian optimization for prompt tuning. Led design for migration from RAG to agentic drafting system.
- **Innovation:** Developed fast passage filtering approach based on contrastive loss and tabu search.
- **Technology:** Python, Litestar, React, TypeScript, Tailwind

### Amazon

New York, NY / Bellevue, WA

*Software Dev Engineer Intern*

*May 2023 - Aug 2023*

- Implemented profile locks for Prime Video on Echo Show devices.
- **Technology:** React Native, TypeScript

*Software Dev Engineer Intern*

*May 2022 - Jul 2022*

- Developed a full-stack system to publish announcements in scorecards used by delivery service partners (DSPs).
- **Technology:** React/Redux, TypeScript, Redux Saga, DynamoDB, Java Spring

## HONORS

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### Google Developer Expert - ML and GCP

Mar 2025 - Present

The Google Developer Experts program is a global network of highly experienced technology experts, influencers, and thought leaders who have expertise in Google technologies, are active leaders in the space, natural mentors, and contribute to the wider developer and startup ecosystem.

### Google Cloud Champion Innovator - Cloud AI/ML

Oct 2022 - Mar 2025

Champion Innovators are a global network of more than 500 professionals, nominated by Googlers, who are technical experts in Google Cloud products and services. Each Champion specializes in one of nine different technical categories. In 2025, the Champion Innovators program was merged into the Google Developer Experts program.

## RELEVANT PROJECTS

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### RAG-based QA System for Zotero

Oct 2024 - Present

*Rust, SQLite, LanceDB*

[GitHub](#)

Built a RAG system to answer research questions and perform semantic search based on the user's Zotero library. Wrote a custom PDF parser for academic papers.

### Programmable Resumes

Aug 2023 - Mar 2025

*Python*

[GitHub](#)

Developed a specification and implementation for modular, customizable resumes with support for two popular LaTeX templates. Wrote this resume using this tool.

### pysh

May 2021 - Dec 2024

*C++, TMLanguage*

[GitHub](#)

Developed a superset of Python that allows running Shell code natively, with a VS Code syntax highlighting extension.

### **Threaded Discussions Website**

Feb 2021 - Jun 2021

*MongoDB, Node.js, React*

[GitHub](#)

Companion website for video calls that allows for Reddit-style, threaded discussions.

### **NearConnect**

Nov 2020 - Mar 2021

*iOS, SwiftUI*

[GitHub](#) :: [App Store](#)

iOS app to connect with people nearby using multicast peer-to-peer connections.

## **EDUCATION**

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### **North Carolina State University**

Raleigh, NC

*Ph.D. Computer Science*

*Aug 2019 - Jul 2024*

- Advisor: *Dr. Tim Menzies*
- Dissertation: *Guidelines for the Application of Neural Technologies in Software Analytics (or: How to Do More with Less in SE)*

### **PES University**

Bangalore, India

*B.E. Computer Science – Advisor: Dr. Snehanshu Saha*

*Aug 2015 - May 2019*