

## EDUCATION

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### North Carolina State University

*Ph.D. Computer Science*

Raleigh, NC

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

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

Bangalore, India

Aug 2015 - May 2019

## EMPLOYMENT

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### LexisNexis Legal & Professional

*Senior Data Scientist I*

Raleigh, NC

May 2024 - Present

- 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.
- Led initiative to use Bayesian optimization for prompt tuning.
- Led design for migration from RAG to agentic drafting system.
- Developed fast passage filtering approach based on contrastive loss and tabu search.
- Python, Litestar, React, TypeScript, Tailwind

### Amazon

*Software Dev Engineer Intern*

New York, NY / Bellevue, WA

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.

## RELEVANT PROJECTS

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### RAG System for Zotero

*Rust, SQLite, LanceDB*

Oct 2024 - Present

[GitHub](#)

WIP: Building a RAG system with a custom PDF parser for academic papers using the user's Zotero library.

### Programmable Resumes

*Python*

Aug 2023 - Mar 2025

[GitHub](#)

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

### pysh

*C++, TMLanguage*

May 2021 - Dec 2024

[GitHub](#)

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

**Threaded Discussions Website***MongoDB, Node.js, React*

Feb 2021 - Jun 2021

[GitHub](#)

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

**NearConnect***iOS, SwiftUI*

Nov 2020 - Mar 2021

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

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

**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)