

EDUCATION

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

LexisNexis Legal & Professional

Senior Data Scientist I

Raleigh, NC

May 2024 - Present

- **Performance improvements:** Improved customer-facing product runtime by 24.8% and reduced peak memory usage duration by 21.3%.
- **Drafting improvements:** Helped improve complaint drafting results by 115% and motion drafting by 28.4% of usefulness.
- **Workflow improvement:** Led initiative to use Bayesian optimization for prompt tuning.
- **Innovation:** Developed fast passage filtering approach based on contrastive loss and tabu search.
- **Technology:** 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 AND AWARDS

Mar 2025 - Present - Google Developer Expert (2025) - ML and GCP

Oct 2022 - Mar 2025 - Google Cloud Champion Innovator - Cloud AI/ML

Feb 2022 - Google Cloud Research Innovator

RELEVANT PROJECTS

RAG Agent for Zotero

Rust, SQLite

Oct 2024 - Present

[GitHub](#)

WIP: Building a PDF parser and a RAG agent for academic papers by linking to 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

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

Nov 2020 - Mar 2021

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

SKILLS

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

Frameworks: Flask, Keras, PyTorch, Node.js, React

Databases: MySQL, MongoDB, DynamoDB

Cloud: Google Compute Engine, S3, Google Cloud Storage, EC2