

EDUCATION

North Carolina State University

Ph.D. Computer Science – Advisor: Dr. Tim Menzies

Raleigh, NC

Aug 2019 - May 2024

PES University

B.E. Computer Science

Bangalore, India

Aug 2015 - May 2019

EMPLOYMENT

Amazon

Software Dev Engineer Intern

New York, NY

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, DyanmoDB, Java Spring

North Carolina State University

Graduate Teaching Assistant

Raleigh, NC

Aug 2023 - May 2024

- TA (with 2 others) for 149 students for a graduate Automated Software Engineering course.
- TA (with 4 others) for 289 students for a graduate Software Engineering course.

Graduate Teaching Assistant

Aug 2022 - May 2023

- TA (with 3 others) for 97 students for a graduate Automated Software Engineering course.
- TA (with 4 others) for 233 students for a graduate Software Engineering course.

Graduate Research Assistant

Jan 2020 - May 2022

- **Better, faster deep learning for SE:** Improved defect prediction by up to 123% (F-1 score), code smell detection by up to 30% (AUC)
- **Semi-supervised learning:** Achieved state-of-the-art results on static code warnings analysis using 10% of the labels.

HONORS AND AWARDS

Google Cloud Champion Innovator - Cloud AI/ML, Jul 2023

Google Cloud Research Innovators Mentor, Dec 2022

Google Cloud Champion Innovator, Oct 2022

Google Cloud Research Innovator, Feb 2022

INVITED TALKS

Feb 2024, “Improving deep learning performance using theoretical ML” at BITS Pilani, KK Birla Goa Campus, India

RELEVANT PROJECTS

Programmable Resumes

Aug 2023 - Present

Python

[GitHub](#)

Developed a specification and implementation for modular, customizable resumes with support for two popular LaTeX templates.

pysh

May 2021 - Present

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.

JournalBear

Jan 2017 - Feb 2019

JavaScript, Electron

[GitHub](#) :: [Softpedia](#)

Cross-platform journal application with AES-256 encryption. Rated 4/5 by Softpedia.

SKILLS

Languages: Python, TypeScript, Java, C++

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

Databases: MySQL, MongoDB, DynamoDB

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