

EDUCATION

North Carolina State University <i>Ph.D. Computer Science – Advisor: Dr. Tim Menzies</i>	Raleigh, NC <i>Aug 2019 - May 2024</i>
PES University <i>B.E. Computer Science</i>	Bangalore, India <i>Aug 2015 - May 2019</i>

EMPLOYMENT

Amazon <i>Software Dev Engineer Intern</i> <ul style="list-style-type: none">Implemented profile locks for Prime Video on Echo Show devices.Technology: React Native, TypeScript	New York, NY <i>May 2023 - Aug 2023</i>
<i>Software Dev Engineer Intern</i> <ul style="list-style-type: none">Developed a full-stack system to publish announcements in socrecards used by delivery service partners (DSPs).Technology: React/Redux, TypeScript, Redux Saga, DyanmoDB, Java Spring	<i>May 2022 - Jul 2022</i>
North Carolina State University <i>Graduate Teaching Assistant</i> <ul style="list-style-type: none">TA (with 3 others) for 119 students for a graduate Automated Software Engineering course.TA (with 4 others) for 243 students for a graduate Software Engineering course.	Raleigh, NC <i>Aug 2022 - May 2023</i>
<i>Graduate Research Assistant</i> <ul style="list-style-type: none">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.	<i>Jan 2020 - May 2022</i>

HONORS AND AWARDS

Google Cloud Champion Innovator, Oct 2022

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

RELEVANT PROJECTS

Programmable Resumes <i>Python</i> Developed a specification and implementation for modular, customizable resumes with support for two popular LaTeX templates.	Aug 2023 - Present GitHub
pysh <i>C++, TMLanguage</i> Developed a superset of Python that allows running Shell code natively, with a VS Code syntax highlighting extension.	May 2021 - Present GitHub
Threaded Discussions Website <i>MongoDB, Node.js, React</i> Companion website for video calls that allows for Reddit-style, threaded discussions.	Feb 2021 - Jun 2021 GitHub
NearConnect <i>iOS, SwiftUI</i> iOS app to connect with people nearby using multicast peer-to-peer connections.	Nov 2020 - Mar 2021 GitHub :: App Store
JournalBear <i>JavaScript, Electron</i> Cross-platform journal application with AES-256 encryption. Rated 4/5 by Softpedia.	Jan 2017 - Feb 2019 GitHub :: Softpedia

Results Scraper

Mar 2018 - Aug 2018

MongoDB, Express.js, React, Node.js[GitHub](#)

Website for scraping university examination results and displaying charts and printable reports, with caching.

Video Sharing Website

Oct 2017 - Dec 2017

MySQL, Express.js, React, Node.js, Sass, Elasticsearch[GitHub](#)

Simplified implementation of a video-sharing website with subscriptions and custom searching.

Web development projects

Jan 2017 - Nov 2017

MongoDB, Express.js, React, Node.js, Sass, D3.js[CodePen](#)

Projects include URL shortener, rogue-like dungeon crawler game, voting application, Simon game, land surface temperature heatmap, and mapping meteorite impacts across the globe.

Xtreme Calculations

Apr 2013 - Oct 2017

VB.NET, Python[Softpedia](#)

Windows math software to solve scientific and mathematical problems, with over 30k downloads across multiple sites.

SKILLS**Languages:** Python, TypeScript, Java, C++**Frameworks:** Flask, Keras, PyTorch, Node.js, React**Databases:** MySQL, MongoDB, DynamoDB