Rahul Yedida, Software Developer

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EDUCATION

North Carolina State University

Raleigh, NC

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

Aug. 2019 - Exp. Dec. 2023

PES University

Bangalore, India

B.E. Computer Science - GPA: 7.9/10.0

Aug. 2015 - May 2019

EMPLOYMENT

New York, NY Amazon

Software Dev Engineer Intern

May 2023 - Aug 2023

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

North Carolina State University

Raleigh, NC

Graduate Teaching Assistant

Aug 2022 - Apr 2023

- TA (with 3 others) for 119 students for a graduate Automated Software Engineering class.
- TA (with 4 others) for 243 students for a graduate Software Engineering class.

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% labels.

Graduate Teaching Assistant

Aug. 2019 - Jan. 2020

• Held office hours for 54 undergraduate students and delivered lectures on C++.

Amazon Bellevue, WA

Software Dev Engineer Intern

May 2022 - Jul 2022

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

Indian Institute of Astrophysics

Bangalore, India

Research Intern

Jul. 2018 - Mar. 2019

- Image denoising: Worked on image restoration of globular clusters using convolutional neural networks.
- Research: Proposed novel adaptive learning rate scheme for deep neural networks and demonstrated faster convergence by up to 100,000x.

Honors

2022, Google Cloud Champion Innovator

Relevant Projects

May 2021 - Present pysh

C++, TMLanguageGitHub

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

Threaded Discussions Website

Feb. 2021 - June 2021

MongoDB, Node.js, React

GitHub

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

NearConnect Nov. 2020 - Mar. 2021 iOS, Swift GitHub :: App Store

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

JournalBear Jun. 2017 – Feb. 2019 JavaScript, Electron GitHub :: Softpedia

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

Results Scraper Mar. 2018 – Aug. 2018

MongoDB, Express, React, Node.js

GitHub

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

Video Sharing Website

Oct. 2017 - Dec. 2017

MySQL, Express, React, Node.js, Sass, Elasticsearch

GitHub

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

Xtreme Calculations

Apr. 2013 – Oct. 2017

VB.NET, Python

Softpedia

Windows math software to solve scientific and mathematical problems, with over 30,000 downloads over multiple sites.

Video Indexer

Jun. 2017 - Sep. 2017

C++, Qt, CMUSphinx

GitHub

Cross-platform desktop application to detect the time(s) a given keyword was spoken in a given video.

Web development projects

Jan. 2017 - Nov. 2017

MongoDB, Express, React, Node.js, D3, Sass

GitHub

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

SKILLS

Languages: Python, TypeScript, Java, C++

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

Databases: SQL, MongoDB, DynamoDB