Rahul Yedida, Software Developer

Website :: GitHub :: LinkedIn :: Google Scholar

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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   *Aug 2015 - May 2019*

EMPLOYMENT

Amazon   New York, NY
Software Dev Engineer Intern   *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 socrecards used by delivery service partners (DSPs).
- **Technology:** React/Redux, TypeScript, Redux Saga, DyanmoDB, Java Spring

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 course.
- TA (with 4 others) for 243 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, 2022

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.

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.

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.

Video Indexer   Jun 2017 - Sep 2017
C++, Qt, Sphinx   [GitHub]

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

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.

SKILLS

Languages: Python, TypeScript, Java, C++

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

Databases: MySQL, MongoDB, DynamoDB

Technologies: Large Language Models (LLMs), Deep Learning, Machine Learning, Full-Stack Development