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 - May 2024*

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 scorecards 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 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