


Rahul Yedida

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Education

North Carolina State University

PH.D. COMPUTER SCIENCE – ADVISOR: DR. TIM MENZIES

Raleigh, NC

Aug 2019 - Exp. Dec 2023

PES University

B.E. COMPUTER SCIENCE

Bangalore, India

Aug 2015 - May 2019

Experience

Amazon

SOFTWARE DEV ENGINEER INTERN

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

New York, NY

May 2023 - Aug 2023

Amazon

SOFTWARE DEV ENGINEER INTERN

- 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

New York, NY

May 2022 - Jul 2022

North Carolina State University

GRADUATE TEACHING ASSISTANT

- 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

Aug 2022 - Apr 2023

North Carolina State University

GRADUATE RESEARCH ASSISTANT

- 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.

Raleigh, NC

Jan 2020 - May 2022

Funding

2022 **\$5,000**, Google Cloud Academic Research Grant

Service

Reviewer, NeurIPS, 2023; Journal of Big Data, 2023; Automated Software Engineering (ASE), 2023; Empirical Software Engineering (EMSE), 2021; IEEE Symposium Series on Computational Intelligence (SSCI) 2020

PC Member, Automated Software Engineering (ASE) Artifact Evaluation Track, 2022; International Conference on Software Maintenance and Evolution (ICSME) Artifact Evaluation Track, 2021, 2022; International Conference on Modeling, Machine Learning, and Astronomy (MMLA), 2019

Student Volunteer, Automated Software Engineering (ASE) '21

Honors & Awards

2022 **Google Cloud Champion Innovator**

Projects

Programmable Resumes

PYTHON

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

GitHub

Aug 2023 - Present

pysh

C++, TMLANGUAGE

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

GitHub

May 2021 - Present

RAISE

PYTHON, KERAS

[GitHub](#), [PyPI](#)

Aug 2020 - Present

- Sole developer for a PEP8-compliant, ML Python package used by our research lab and others for replicable results. Downloaded 19k times.

Google/Meta Data Mining

[GitHub](#)

PYTHON, KERAS

Feb 2021 - May 2021

- Data science project to use Google Takeout and Meta user data to suggest products to advertise to a user from Amazon best-sellers using DistilGPT-2, and achieved 0.6 F-1 score.

Threaded Discussions Website

[GitHub](#)

MONGODB, NODE.JS, REACT

Feb 2021 - Jun 2021

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

NearConnect

[GitHub](#), [App Store](#)

IOS, SWIFTUI

Nov 2020 - Mar 2021

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

Personalized Chatbot

[GitHub](#)

PYTHON, KERAS

May 2019

- Fine-tuned a GPT-2 345M model on 730k messages from Telegram logs to create a personalized chatbot.

Intelligent Tutoring System

[GitHub](#)

PYTHON

Sep 2018 - May 2019

- Implemented an Intelligent Tutoring System backend using Bayesian Knowledge Tracing and a novel question selection algorithm.

Human Activity Data Project

[GitHub](#)

PYTHON, KERAS

Oct 2018 - Nov 2018

- Collected personal activity data for 9 months, grouped tasks into 21 categories. Analyzed most productive hours of the day.

JournalBear

[GitHub](#), [Softpedia](#)

JAVASCRIPT, ELECTRON

Jan 2017 - Feb 2019

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

Results Scraper

[GitHub](#)

MONGODB, EXPRESS.JS, REACT, NODE.JS

Mar 2018 - Aug 2018

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

Video Sharing Website

[GitHub](#)

MYSQL, EXPRESS.JS, REACT, NODE.JS, SASS, ELASTICSEARCH

Oct 2017 - Dec 2017

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

Xtreme Calculations

[Softpedia](#)

VB.NET, PYTHON

Apr 2013 - Oct 2017

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

Video Indexer

[GitHub](#)

C++, QT, SPHINX

Jun 2017 - Sep 2017

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

Web development projects

[CodePen](#)

MONGODB, EXPRESS.JS, REACT, NODE.JS, SASS, D3.JS

Jan 2017 - Nov 2017

- 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