Rahul Yedida, Software Developer

Website :: GitHub :: LinkedIn :: Google Scholar +1 (206) 660-7542

EDUCATION

North Carolina State University

Ph.D. Computer Science - GPA: 3.9/4.0

Aug. 2019 - Present

rahul@ryedida.me

Raleigh, NC

PES University

Bangalore, India

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

Aug. 2015 - May 2019

EMPLOYMENT

North Carolina State University

Raleigh, NC

Graduate Teaching Assistant

Aug 2022 - Present

- 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% (median) 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

- o 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

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 - June 2021

MongoDB, Node.js, React

GitHub

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

Nov. 2020 – Mar. 2021

iOS, Swift

GitHub :: App Store

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

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

GitHub

MongoDB, Express, React, Node.js

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

Video Sharing Website

VB.NET, Python

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

Oct. 2017 – Dec. 2017 GitHub

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

Xtreme Calculations Apr. 2013 – Oct. 2017

Soft pedia

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

Video Indexer C++, Ot. CMUSphinxJun. 2017 – Sep. 2017 GitHub

C++, Qt, CMUSphinx

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

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