RAHUL SUNDARESAN

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% https://rsun.dev

nttps://github.com/rahul-sundaresan

• Stack: Python Mininet Plotly pandas

EDUCATION

M.S. Computer Science

University of North Carolina at Charlotte

B.Tech Computer Science

SASTRA University

2015-2019

Software Engineering Intern

Capgemini Technology Services (Storage and Infrastructure team)

Movember 2017-December 2017

♀ Bangalore, India

- Augmented an in-house software with features to automate system administration tasks.
- Implemented automated sign-in between Rundeck and the in-house software which bolstered the security of the application.
- Stack: PHP Rundeck

SKILLS

Programming

 Python
 LaTeX
 Java (Android Development)
 Javascript

 CSS
 HTML
 Node.js

Tools and Libraries

React React Native Software Defined Networks (SDN) **REST APIs** Gatsby IPv6 Mininet Plotly GitHub Actions pandas react-d3-graph Agile Development **Google Cloud Functions** Firebase Wireshark TCP/IP Linux/UNIX Windwows Subsystem for Linux (WSL2)

PROFESSIONAL EXPERIENCE

Full Stack developer (Part time) **ING**

March 2021-Current

San Francisco, California

- Implemented features in the company's flagship app using React Native
- Built REST APIs using Google Cloud functions which are consumed by the app
- Architected sequence diagrams for the design of the app using Miro
- Built a location based search engine using a custom built implementation of Geohashes and programmed a search filter using Dice's Coefficient
- Wrote Unit tests using Jest to verify and validate functionality
- Stack: React Native Firebase Google Cloud functions

 Node.js JavaScript Miro

Research Assistant

University of Nevada at Las Vegas

🛗 June 2020-August 2020

- Las Vegas, Nevada
- Collaborated with Dr. Yoohwan Kim and Dr. Ju-Yeon Jo in researching the effectiveness of Multipath TCP in improving TCP throughput.
- Deployed network simulations to measure the throughput under varying latency and loss rate for Singlepath and Multipath TCP networks.
- Processed the output of iperf3's JSON results and graphed the data to visualize trends in throughput.

Software Development Intern

Perpetuuiti Technosoft

Movember 2016-December 2016

Chennai, India

- Built a GUI application that tracked changes to files and recreated the differences which was used as a part of ttheir Backup Software portfolio
- Stack: Windows API C++ CBFS Filter

Network and System Administrator (on Contract) Pat & Venky

♦ Chennai, India

- Decommissioned an aging Windows based fileshare system and deployed a NAS for collaboration which drastically improved productivity and security.
- Configured fileshares with access based controls preventing unauthorized access to proprietary business data.
- Deployed a backup strategy which increased business data resiliency.
- Set up separate VLANs, creating a secure and faster network which increased employee performance
- Set up a cloud hosted Unifi controller on google cloud platform (GCP)
- Configured appropriate firewall policies for the VM to allow for centralized deployment of future sites and reduce CAPEX costs.

PROJECTS

Website Portfolio

- Built a personal website using Gatsby with CI/CD on Netlify.
- The PDF resume on the site is written in LaTeX and generated with GitHub actions
- The website automatically integrates the latest version of the resume whenever a commit is made to the LTEX repository using GitHub Actions.

Teammaking

- Developed a full stack application that generates teams based on a survey.
- Collaborated with other developers following an agile development methodology and built using React, Node and mySQL.

Network ranger

- Refactored the code base and code reviewed a Discord bot that manages user roles and permissions in a discord server.
- Optimized a docker workflow to prevent a security breach.

Agency spotter scraper

 Designed a pipeline to scrape the agency spotter website using Python's Beautiful Soup library and a bash script.