

Rahul Singh

Software Engineer | F1 Visa



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EDUCATION

B.S. Computer Science

University of Texas, Dallas

Expected: May, 2021

Leadership

Peer Mentor

Mentored two freshmen students with weekly one-on-one meetings by providing advice on curriculum, student orgs, and general info about Engineering and Computer Science Department

Comet-Cupboard Volunteer

Managed the facility by checking out items, restocking shelves, and helping first students by making them familiar with the place.

Teaching Assistant

Led weekly calculus problem-solving sessions for classes containing 40 undergraduate students for Multivariable calculus class.

SKILLS

Languages

Java, C/C++, Python, JavaScript, HTML, CSS, SQL, MIPS Assembly, Verilog, PHP

Technologies

React, Mongo DB, JUnit, Git, REST API, Node.js

AWARDS

AES Distinction Scholarship

20,000/yr tuition + out of state tuition waiver + \$2000/yr stipend

Personal Projects

Comet Carpool

May 2019-Present

- Carpooling app for UT Dallas Students
- Languages/APIs used: React, Java, CSS, HTML, JavaScript

Health Monitoring System, HackRice 7

September 2017

- Implemented a portal to display health patient info to doctors with push notifications by reading from a database

EXPERIENCE

Software Engineering Intern

University of Texas at Dallas, Richardson, TX / May 2018 – August 2018

- Indoor Navigation app prototype
- My primary focus was to design the Android app and work on the mathematical model
- Project mentor for two of the four teams (3 people each) reporting to professor and PHD researcher
- Languages and APIs used: Java, Cisco API, ArcGIS Servers, PHP, JavaScript and HTML

Software Engineering Intern

Montserrat Retreat Jesuit House, Lake Dallas, TX / February 2020 – May 2020

- Adding features to Internal management portal, running PHPUnit tests, managing and removing errors from the codebase, Testing newly added features with backend using PHPmyadmin.
- Languages and APIs used: Laravel, Stripe API, PHP, JavaScript and HTML, PHPmyadmin.

Software Engineering Intern

Charles Schwab, Austin, TX / June 2020 – August 2020

- Incoming Summer 2020 Intern

Course Projects

Data control: (Java) Implemented a protocol to send text, audio and video from a sever to client along with a controller to play and pause.

Auto park:(C++) Implemented a multi-story parking system using multi-directional linked list.

Blinking lights: (Behavioral and Structural Verilog) Implemented traffic light system with system design, finite state machines and Boolean logic

Phase10:(Java) Implemented Phase 10 card game using OOP concepts

Assembly Circuit: (MIPS) Designed simple Boolean functions and circuits

Library Management Database: Used SQL and normalization to design entities and DB system for library members, checkout, employees, etc.

Matchmaking for Dummies: Designed the high-level architecture, class diagram, sequence diagram, state diagrams, app mockups, etc.