Avinash Damania

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EDUCATION

UT AUSTIN, CLASS OF 2021
B.S. in Computer Science

GPA: 3.73 (University Honors List)

ORGANIZATIONS

Officer/iOS Instructor: Mobile App Development

Officer/Webmaster: Longhorn Smash

Developer: MAD Labs

Autonomous Intelligent Robots Lab: Freshman Research Initiative

Sponsored Streamer: Longhorn Gaming

Member: Q++ (LGBTQIA+ in CS org)

COURSEWORK

Software Engineering
Natural Language Processing
Neural Networks
Intro to Data Mining
Computational Semantics
Information Retrieval
Programming for Performance
Algorithms
Data Structures
Computer Networks
Computer Architecture
Operating Systems
Discrete Math
Linear Algebra

SKILLS

Familiar:

Python • JavaScript • TypeScript •
React/Redux • Express • Node.js •
Java • C • C++ • Git • Swift/Xcode •
Firebase • BigQuery • Lightning Web
Components

Experience:

Moq unit testing • Angular • Django •
MySQL • C# • Google Apps Script •
GitLab (Issues/Continuous Integration) •
Tensorflow • nltk • d3.js

EXPERIENCE

SALESFORCE | Software Engineering Intern
June 2020 – August 2020 | San Francisco, CA (virtual)
- Worked on Health Cloud team to develop native PDF generation for Lightning Web Components, enabling secure transfer of personal/medical information for clients and stylistic customization for LWC developers.
- Created Slackbot to automatically parse test org credentials from Jenkins builds using Google Apps Script/Sheets API, saving developer time and effort.

WORDPRESS ENGINE | Software Engineering Intern
June 2019 – August 2019 | Austin, TX
- Worked on Architects team to develop a sites analytics dashboard visualizing data about site traffic, errors, response times, disk usage, and bandwidth for customers. Built from scratch using React, Express, Typescript, and BigQuery.
- Demoed to CTO/CMO and others to obtain support for further development.

INTELLIGENT ENVIRONMENTS LAB | Research Assistant
September 2018 – Present | Austin, TX
- Built iOS app to collect student feedback on classroom climates and accordingly adjusting temperatures with help from the UT Energy Department.
- Working with Swift/Firebase and Python for data analytics on the feedback.

BENTLEY SYSTEMS | Software Development Intern
May 2018 – August 2018 | Austin, TX
- Worked on Analytical Insights team to develop a data analytics service pulling from MySQL for structural engineering teams to track projects over time.
- Restructured OData APIs and raised code coverage from 72% to 90%.

PROJECTS

GDC ROBOT NAVIGATION | Express/C++
- A web interface for the Building-Wide Intelligence bots to provide live-scraped event info and automated navigation for GDC visitors.
- Implemented manual stopping and automatic return to the lab when idle.

OFFICIAL MAD APP/WEBSITE | Swift/Django
- Student org info + signups/schedule for MADCon (200 attendees).

SENSATIONALISM DETECTOR | Python (Tensorflow/NLTK)
- Basic neural network that determines how sensationalized a text is.
- Used syntax, sentiment, punctuation, profanity, etc. in classification.

TABSOLUTE | React/TypeScript/Express
- A web app to help guitarists write tablature/sheet music digitally.
- Retains personal library of learned/tabbed songs for later access.

TRADUZCO | Java
- A Java transpiler that translates Spanish code keywords to English.

TESSERACT | Swift/Core Data/Core ML (in progress)
- A Rubik's cube timer iOS app for progress tracking and visualization.
- Uses machine learning to provide targeted algorithm/sequence training.