# Avinash Damania

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# **EDUCATION**

# UT AUSTIN, CLASS OF 2021 B.S. IN COMPUTER SCIENCE

GPA: 3.8 (University Honors List)

# **ORGANIZATIONS**

Officer/iOS Instructor: Mobile App

Development

Officer/Webmaster: Longhorn Smash

Developer: MAD Labs

Autonomous Intelligent Robots Lab:

Freshman Research Initiative

# COURSEWORK

Software Engineering Computational Semantics Information Retrieval Algorithms Data Structures Computer Networks Computer Architecture Operating Systems Discrete Math Linear Algebra

# **SKILLS**

#### Familiar:

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

#### Experience:

Python • Angular • Moq unit testing • Django • MySQL • C# • GitLab (Issues/Continuous Integration)

### **EXPERIENCE**

# WORDPRESS ENGINE | SOFTWARE ENGINEERING INTERN

June 2019 - August 2019 | Austin, TX

- Worked on Architects team to develop a sites analytics dashboard for customers to present data about site traffic, errors, response times, disk usage, and bandwidth.
- Demoed to CTO/CMO and others to obtain support for further development.
- Built from scratch using React, Express, Typescript, and BigQuery.

# 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 for structural engineering teams to track projects over time.
- Restructured OData APIs and raised code coverage from 72% to 90%.
- Worked with Angular, C, Typescript, Redis, and Moq.

# **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.

### TOURNAMENT ORGANIZER | REACT/TYPESCRIPT/FIREBASE

- A tool to automate and optimize running Smash Bros tournaments.
- Tracks setup history and pulls from live bracket data.

### OFFICIAL MAD APP/WEBSITE | SWIFT/DJANGO

- For coordinating MAD student org information and registration.
- Logged signups and provided schedule for MADCon (200 attendees).

# SENSATIONAL 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 that tracks/visualizes progress and uses machine learning to provide targeted algorithm training.
- Conforms to official World Cube Assocation rules on valid timer runs.