

# 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++ (LGBTQ 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)

## 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.