Avinash Damania

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EDUCATION

- **Bachelor of Science in Computer Science, University of Texas at Austin, Class of 2021**
    - **Current Courses:** Operating Systems, Computational Semantics, Linear Algebra, Accounting.
    - **Past Courses:** Data Structures, Computer Architecture, Autonomous Intelligent Robots, Discrete Math, Multivariable Calculus, Probability/Statistics, Entrepreneurship.
    - **Current GPA:** 3.92 (University Honors List), **Computer Science GPA:** 4.0
- **Plano East Senior High School, International Baccalaureate Program, Class of 2017**

EMPLOYMENT HISTORY

Research Assistant, Intelligent Environments Laboratory (2018 – present)
- Working on an iOS app to collect student feedback for the purpose of adjusting environment control in classrooms.
- Developing machine learning models to analyze the data and a web dashboard to display the data.

Software Development Intern, Bentley Systems (2018)
- Worked on the Analytical Insights team to develop a data analytics service for design/structural engineering teams.
- Raised code coverage from 72% to 84%, restructured an OData API, abstracted communication with a Mongo database, updated frontend of a web app (Angular), and implemented a Redis cache for computations.

Intern, Regal Research and Manufacturing, Richardson, TX (2016)
- Worked in the Electrical/Mechanical Assembly, Welding/Soldering, and Machine Programming Departments.
- Used AutoCAD and Mastercam software to design/produce CNC machined parts for aircraft and medical devices.

SKILLS

- Experience with Java, C, C++, C# and .NET apps, Git version control, Swift, JavaScript/Typescript (Angular), HTML/CSS, Robot Operating System (ROS), OData RESTful APIs, and unit testing with the Moq framework. Familiar with Python, SQL, and MongoDB.

PROJECTS

- **GDC Robot Navigation:** a web interface for the BWIBots to provide building navigation for visitors. Scrapes event information to keep an updated list for users, stops on user prompt and automatically returns to the lab when idle.
- **Official UT MAD App/Website:** for coordinating Mobile App Development org information/registration.
- **Tesseract (in progress):** a Rubik's cube timer iOS app that tracks progress and provides targeted algorithm training.
- **Evil Hangman:** developed a game of hangman with a computer AI actively working against the player.
- **Traduzco:** a Java transpiler that allows code to be written in Spanish and translates keywords to English.
- **App4Tht**: a networking site to crowdsource collaboration by finding apps or developers to create new apps.
- **ParkIt**: an Android app that shows a live feed parking diagram of exact spots available in large-scale parking lots.

ACTIVITIES

Mobile App Development – Officer/iOS Instructor (2018-present) – Teaching iOS classes for UT Austin students.
Freshman Research Initiative (2018) – Autonomous Intelligent Robots (Dr. Justin Hart, Learning Agents Research Group).
Bold Idea – Mentor (2015-2017) - Mentored elementary/middle school students in basic coding skills at UT Dallas.

HONORS & AWARDS

IncubateX National Hackathon (2016) – Received "Best of Solera Award" for the App4Tht project.
Beal Bank Dallas Regional Science and Engineering Fair - 2016 - 2nd Place, 2017 – 3rd Place/Rockwell Collins Award for "Invisibot: Utilizing Omnidirectional Cameras as a Method of Camouflage for Military Ground-Based Robots."
National Merit Finalist and Scholarship Winner
National Spanish Exam – 99th Percentile, **Pan-American International Student Forum –** Multiple gold medals (1st).