Avinash Damania

www.avinashdamania.me   (972) 697-5389   avinash.damania@utexas.edu

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

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.

Website Developer, Travel King International, Richardson, TX (2015)
- Designed and coded a business website to help with marketing and international flight booking.

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 that provides building navigation for visitors. Scrapes event locations and information to keep an updated list for users, and includes user-prompted stopping and automatic return 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)