

## EDUCATION

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- **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

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### 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 65% to 84%, restructured an OData API, abstracted communication with a Mongo database, updated frontend of a web app (AngularJS), 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

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

## PROJECTS

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- **GDC Robot Navigation:** a front end web interface for the BWIBots to provide building navigation for visitors.
- **Official UT MAD App/Website:** for coordinating Mobile App Development org information/registration.
- **Evil Hangman:** developed a game of hangman with a computer AI actively working against the player.
- **Traduzco:** a simple 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.
- **Tesseract (in progress):** a Rubik's cube timer iOS app that tracks progress and provides targeted algorithm training.
- **TabSolute (in progress):** a web app that helps guitarists write tab and transpose music to different keys.

## ACTIVITIES

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**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

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**IncubateX National Hackathon** (2016) – Received “Best of Solera Award” for the App4Tht project.

### Beal Bank Dallas Regional Science and Engineering Fair

- 2017 - 2<sup>nd</sup> Place, 2018 – 3<sup>rd</sup> Place/Rockwell Collins Award for “Invisibot: Utilizing Omnidirectional Cameras as a Method of Camouflage for Military Ground-Based Robots.”

**National Merit Finalist/Winner (Scholarship) and National AP Scholar**

**National Spanish Exam** – 99<sup>th</sup> Percentile, **Pan-American International Student Forum** – Multiple gold medals (1<sup>st</sup>).