

# Matteo Agius-D'Arrigo

(972) 522-8164 | magius@utexas.edu  
2207 Nueces St, Austin, TX 78705 | 316 Lakewood Court, Coppell, TX 75019

## EDUCATION

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### The University of Texas at Austin

Bachelor of Science, Computer & Electrical Engineering (Software Engineering Track)  
Minor: Business

May 2022

GPA: 3.7/4.0

## EXPERIENCE

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### Bands (Startup) - Co-Founder, Main Developer

2019 – Present

- Worked on the full-stack development of a college event and ticketing platform on web and iOS.
- Implemented a database on Google's cloud. Worked with Google, Apple, PayPal, and other third-party SDKs and APIs for a social integration algorithm, payment gateway, navigation, calendar, notifications, search, etc.
- 3000+ lines of Node.js backend in TypeScript to manage user relations and event sharing.

### IEEE Power Engineering Society - Corporate Connection & Technology Officer

2018 – 2020

- Use of React.js to further better UI design of the website and update recent projects.
- In charge of all communication to engineering and tech company representatives to network with org members.

### University Co-op - Sales Associate

2018 – 2019

- Worked concurrently while being enrolled at UT Austin.
- Took care of customers' questions in the retail section, worked the register and managed inventory when needed.

### NASA Johnson Space Center - High School Intern

Summer 2018

- Was chosen the role of operations manager for my team and thus oversaw decisions before they were performed.
- Java and C++ implementation to test and debug water recovery system and if the SLS will be viable for a manned mission to Mars by 2020. Threading, JDBC, and multiple collection frameworks used.

## NOTABLE PROJECTS

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**Galaga with AI** - Remade Galaga, the arcade game, with collision detection and a path prediction algorithm for enemy ships, fully built on a TI; C/C++.

2019

**Linear Algebra 3D Visualizer** - Input coordinates to see a 3D visualization of vectors with three.js, Understand span, matrix calculations, linear transformations, and eigenvalues; HTML/CSS/JavaScript.

2020

**Plagiarism Checker** - Wrote a plagiarism detector that uses custom hashing in order to identify if .txt files have related content and to what percentage that is; C++.

2019

**RoadFocus App** - An app that uses facial detection software to alert drivers if they are falling asleep at the wheel. Logs data in the cloud and uses a performance-judgment algorithm for a score; iOS, SQL.

2020

## AWARDS / RECOGNITION

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**Selected Winner** – COVID-19 Global Hackathon, 18,000+ participants and judges from ~100 top tech-companies.

**1<sup>st</sup> Place Overall** – HackUNT 2020 hackathon, presented by Major League Hacking; iOS, GCP.

**2<sup>nd</sup> Place** – State Farm Challenge at HackUNT 2020, presented by State Farm; iOS, GCP.

**2<sup>nd</sup> Place Overall** – RowdyHacks 2020 hackathon, presented by Major League Hacking; C++, JSX, GCP.

**1<sup>st</sup> Place** – RowdyHacks 2020 hackathon's Best Hardware Hack, presented by Major League Hacking; C++, JSX, GCP.

## SKILLS / INTERESTS

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• Java/C++/Python    • HTML/CSS/JavaScript    • Swift/Objective-C    • Cloud Functions    • Machine Learning