

NICHOLAS EMILIO CANGA

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EDUCATION

The University of Texas at Austin	Bachelor of Science, Electrical and Computer Engineering. Track: Software Engineering and Design. Overall GPA: 3.85	May 2022
Strake Jesuit College Preparatory	Graduated top 10 percent of class.	May 2018

EXPERIENCE

Goldman Sachs - Global Markets Software Engineering Intern; Dallas, TX June 2021 - August 2021
Fixed income, commodities, and currencies software developer.

- Upgraded Java bond-pricing server to accept multiple concurrent client sessions (could previously only connect one client), increasing aggregate bond-pricing server memory efficiency by 82% and CPU utilization by 74%.
 - Added multiple session support to the core server model and config, allowing clients to be corrected routed.
- Added new UI and backend for EUR interest rate swaps in internal Sales and Trading software with React and Java.
 - Enabled the purchasing and selling of swaps over previously held maximum limits of 3 MM per year.

UltraMarine Offshore Consulting - Developer Intern; Houston, TX May 2020 - August 2020

- Streamlined CI/CD process by configuring NodeJS auto-deployment and testing pipeline to Heroku web servers.
- Implemented two-factor user authentication to React Frontend with Firebase API integration and Twilio SMS messaging services.
 - Synchronized user data collection with Firebase NoSQL database to gather critical business insight data.

Unicorn Scooter Startup Company - Developer; Austin, TX December 2018 - April 2019

- Collaborated with former CEO of Tile, Nick Evans on an electric scooter startup company in Austin.
- Implemented RFID verification system with key fobs and Arduino boards to create custom keys for scooter owners.
- Designed and implemented a distance-based Bluetooth locking and unlocking system for rental scooters with a Raspberry Pi Zero and Particle board over serial communication handled by a custom Python script.
 - This allowed for locking and unlocking of scooters remotely from mobile devices using a Particle cloud function.

ACADEMIC PROJECTS

University of Texas: Fighting Fake News and Hate Speech May 2020 - September 2021
Human AI Partnership Researcher for Amazon Scholar Dr. Matthew Lease.

- Implemented Python word2vec ML model with XGBoost to classify headlines as conservative or liberal from various newspapers and websites.
- Constructed Amazon Mechanical Turk Python pipeline to automate the collection, acceptance, rejection, and payment of crowdsourced training data with Boto3 Mechanical Turk API.
- Deployed and designed external Human Intelligence Task experiments to Amazon Mechanical Turk Workers on Heroku.
- Analyzed collected worker data using Pandas and Scikit for publication findings.

Startup Senior Design Project: Concussion Detecting Helmet August 2021 - Present

- Received funding from the University of Texas to prototype and develop lightweight, real-time concussion detecting embedded system with four classmates and Professor Mark McDermott in Fall 2021.

HONORS & SCHOLARSHIPS

• ExxonMobil LOFT Fellowship Grant Recipient. June 2020 - July 2020

ADDITIONAL INFORMATION

Programming Skills: Python, Flask, Java, Javascript, React, Git, NoSQL.

Languages: Fluent in Spanish.

Interests: Soccer, Finance, Sports Stats, Rock Climbing, Reddit, Competitive Programming, Code golf, Coffee.