Tarik Brown

University of Notre Dame – Computer Science and Economics Double Major

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Education

University of Notre Dame Notre Dame, IN (2018–2022)

- Bachelor of Engineering (Computer Science)/Bachelor of Arts and Letters (Economics)
- AnBryce Scholar (2022 Cohort)/Questbridge National Scholar/Notre Dame Leadership Seminars 2017 Alum

Work Experience

Google

Computer Science Summer Institute Student Pittsburgh, PA (Summer 2018)

- Participated in highly selective, intensive, three-week coding boot camp focused on programming and web app development
- Learned HTML/CSS,Javascript,Python and Google AppEngine from engineers over a three week period
- Developed and deployed TradingX in one week, a web app that allows users to post an item with the purpose of trading with other users. Implemented back-end using python and front-end using Javascript and HTML/CSS. Uses data-store to store uploaded images and serve them to the application.

Johnson and Johnson Vision Care

Robotics Intern Jacksonville, FL (Summer 2018)

- Led a four week robotics curriculum teaching a cohort of 13 interns
- Maintained and improved processes within contact lens production lines by fixing production line error and identifying mechanical pitfalls (2GT and 3GT)
- Taught Java fundamentals using Eclipse and Android Studio as well as revision control through Git hub.

University of North Florida

Research Assistant Jacksonville, FL (Summer 2017)

- Decreased visual image recognition program run-time by 20 percent by taking model data and using statics to calculate errors and biases within the data. Improvements were implemented via Neural Networks using **Tensorflow API** and **Google Sonnet Libraries** and **Java**.
- Optimized image recognition times by calculating statistical error margins and identifying image recognition errors

Mathnasium

Lead Math Instructor Jacksonville, FL (August 2017 - May 2018)

- Tutored 10-12 students a day from the grades of K-12 in math ranging from first grade math to AP Calculus.
- Tutored children with disabilities such as dyslexia or educational development limitations.

Competitions and Personal Projects

FIRST Robotics Competition – Programming Lead (January 2018 - February 2018)

- Developed robot code for autonomous and tele operated user control, including sensors such as the NavX Gyroscope and TalonSRX Encoders
- Decreased overall robot run-time and processing needs with pre-calculated trajectories by writing an autonomous *motion profile* based on a linear piece-wise method that optimizes autonomous trajectory. (**Java**)

Science Olympiad – Founder/Programming Lead (November 2016 - February 2017)

- Wrote an autonomous program for an *electric vehicle* using a rotary encoder (**C++/Arduino**)
- Wrote a program to control a robot arm in order for it to pick up pennies with precision (**Java**)

Portfolio Website (July 2018 - Present)

- Developed and deployed front-end and back-end for a *website* that houses professional work using Google App Engine (**Python/HTML/CSS/Javascript**)

About Me

Technical Skills	Java, Python, Javascript, HTML/CSS, Unix/Linux,LaTeX
Languages	Fluent in Spanish;
Interests	Jazz Music, Robotics