

Caroline C. O'Brien

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Objective

UVA systems engineering major with excellent writing and presentation skills seeks a 2018 summer internship to apply data and statistical analysis programming and computational skills in a real-world environment.

Education

University of Virginia, School of Engineering and Applied Sciences, Bachelor of Science, Major: Systems Engineering, Charlottesville, VA, Status: third year, anticipated graduation date May 2019, current GPA 3.129

Maggie L. Walker Governor's School of Government & International Studies, Richmond, VA, graduated June 2015

- GPA 4.3, ACT Composite Score: 35

Technical Skills

- Coding experience in Java, Python, Matlab, R Studio, & Mathcad as well as UML, SQL, XML and Tableau
- Proficiency working with Windows, Microsoft Word & Excel
- Fluent in Spanish

School Projects

Patient Glucose Database Interface Redesign, Group Project for UVA SYS 3023, 2017

- Re-designed a hospital software interface used by nurses to track insulin intake in patients. Restructured the interface to increase efficiency and minimize human error by improving access to key data.

Fitbit Data Parsing, Individual Project, SYS 2202, Spring 2017

- Provided hypothetical Fitbit user data. Used Java, XML, and PostgreSQL software to transform raw Fitbit data into a more productive format for users.

Investing in Virginia's Transportation Infrastructure, Group Project for UVA SYS 2001, 2016

- Provided two different funding options for bridge reconstruction projects. Determined which projects should be prioritized based on provided data such as current safety conditions, number of lanes, and average traffic.

Commuter Travel Time, Consortium for Mathematics and Its Applications, Bedford, MA, Group Project, 2014

- Within a 36-hour time window, produced an optimization model using public data in order to minimize the time it takes for commuters leaving underground metro trains to reach street level. Group won Meritorious designation.

Work Experience

Server, Trinity Irish Pub, Charlottesville, VA, March 2016 to April 2017. Consistently worked an average of 20 hours per week while in school full-time.

Data Analyst Intern, Blue Ocean Brain, Glen Allen, VA, December 2015 to January 2016. Sorted the database of potential sales leads and utilized Excel and other basic computer programming to perform analysis.

Research Lab Fellowship, Virginia Commonwealth University, School of Engineering, Richmond, VA, July 2014 to March 2015. *Completed research paper*: "Effects of Titanium Surface Nanostructures Induced by Oxidation on the Enhancement of Osteoblastic Differentiation".

Engagement

- Pi Beta Phi Sorority, Virginia Epsilon Chapter, UVA, Member
- One Less Sexual Assault Advocacy Group, UVA, Member
- Indoor Intramural Soccer Team, UVA, 2015 to Present through 2016, Player
- Anthem Half Marathon, Richmond, VA, November 2015, Runner
- Richmond Technology Non-Profit Hackathon, Richmond, VA, August 2017, Volunteer