Zane Alpher

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EDUCATION

University of Virginia **Charlottesville, VA**
Bachelor of Science in Computer Science Class of 2021

- **Relevant Coursework:** Multivariable Calculus, Intermediate Microeconomics

Maret School **Washington, DC**
High School Class of 2017

- **GPA:** 3.61 / 4.0; SAT: 2220 (Math: 800)
- **Relevant Coursework:** BC Calculus, Multivariable Calculus, Linear Algebra, AP Macroeconomics, AP Microeconomics, AP Computer Science A

WORK & LEADERSHIP EXPERIENCE

National Institute of Standards and Technology (NIST) **Gaithersburg, MD**
Intern, Multimodal Information Group July 2016 – Aug 2016

- Helped to clean and organize traffic data for use in the group's pilot data science evaluation.
- Created an algorithm to find traffic incidents caught on camera by matching up one of millions of events in the police's records to a 15-minute segment of video from one of three traffic cameras.
- Gained proficiency in R and ggplot2 (a common plotting system for R) by working through small projects and learning from my supervisor

Engineering Team **Washington, DC**
CEO June 2016 – June 2017
Lead Software Engineer/CTO June 2015 – June 2016
Programmer Sep 2013 – June 2015

- Every year, the engineering team designed and built (incorporating elements of last year's design and strategy) an underwater remotely operated vehicle (ROV) to compete in the MATE competition.
- Although it is an engineering competition, half of the points come from your team's technical report, presentation, and poster.
- During my year as CEO, the team finished fifth place out of 25 teams, including receiving an award for the best presentation, which I organized and lead, and the second-best poster.

Math Team **Washington, DC**
Co-Captain Sep 2016 – June 2017

- The math team served two purposes; for the first half of the year we competed in the Arete math competition against other schools across the country and for the second half we would explore various math topics and solve fun problems.
- Lead the team to our first season above a 50% win rate and was consistently top-2 for the team. Personally averaged around 65% correct compared to the team average of approximately 36%.

SKILLS & ACTIVITIES

Technical Skills: C++, Java, Python, R
Activities: Varsity Lacrosse/Soccer, Counterperson at Cleveland Park Valet (June 2015 – August 2017)