

Ethan Astrachan

919-636-1327 | ethan.astrachan@duke.edu | ethanastrachan.com | linkedin.com/in/ethan-astrachan | github.com/EthanAstrachan

EDUCATION

Duke University | May 2021

Cumulative GPA: (3.77/4.00)

Bachelor of Science in Computer Science and Political Science, Minor in Philosophy

Relevant Coursework: Data Structures and Algorithms, Hacking For Defense, Computer Architecture, Introduction to Artificial Intelligence, Elements of Machine Learning, Computer Vision, Introductions to Databases, Introduction to Cyber Policy

Honors: Deans List Fall 2017, Spring 2018, Fall 2019

PROFESSIONAL EXPERIENCE

KESSEL RUN

Boston, MA

Software Engineer Intern

Summer 2019

- Reduced errors in Air Force mission planning by over 50% and reduced planning time by nearly 90% by creating web application using TypeScript, React and Node.js to replace current workflow
- Scheduled and interviewed stakeholders and users in order to ensure continuous user satisfaction with application
- Practiced Test Driven Development using Enzyme and Mocha, User Centered Design and DevOps agile development in DoD's only continuous deployment environment

SPEAR AUTOMATION

Durham, NC

Co-Founder

January 2019-September 2019

- Co-founded Spear Automation, building software automation tools for small and medium-sized businesses. Currently working with and looking to acquire clients within the Marines, Air Force and Healthcare.
- Deployed application with Marine Corps to save Marine Truck Dispatchers upwards of 50% of daily workflow by automating data transfer between legacy Marine systems
- Won in first place in the 1st Hacking For Defense pitch day at Duke University and pitched at Founders Fund
- Optimized user satisfaction by conducting over 120 user interviews

DUKE UNIVERSITY DEPARTMENT OF POLITICAL SCIENCE

Durham, NC

Research Assistant

January 2019-September 2019

- Utilized Python web scrapers to capture information from Twitter for data collection for USAID-backed research project
- Assisted in the creation of Recombinant Neural Net in order to perform event extraction and identification
- Built knowledge graph from unstructured texts such as news articles in order to assist with event-relation identification and easier lookup

DUKE UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE

Durham, NC

Teaching Assistant

August 2018-August 2019

- Planned and instructed lab of over 20 students about basics of Python and Java programming language
- Tutored additional students who required additional assistance receiving 100% positive reviews from students

CAMP KESEM AT DUKE UNIVERSITY

Durham, NC

Finance Coordinator

August 2018-Present

- Responsible for developing and maintaining system for accurate accounting of budget of over \$90,000
- Developed strategies of soliciting funding of over \$10,000 from outside organizations through grants
- Communicated with donors, sponsors and outside organizations to ensure accurate accounting of all revenue

MCCREADY FOR CONGRESS

Mecklenburg, NC

Finance Intern

May 2018-August 2018

- Conducted research using NGP on potential and recurring donors to help candidate fundraise record \$2.5 million
- Solicited event space and event equipment and negotiated prices for fundraising events
- Led phone drive and solicited donations from over 150 recurring donors

SKILLS, ACTIVITIES AND INTERESTS

Languages: Professional proficiency in Spanish, Beginning Arabic

Activities: Camp Kesem at Duke, Duke Program in American Grand Strategy Undergraduate Council, Delta Sigma Pi

Technical: Python, Java, JavaScript, TypeScript, PostgreSQL, React, HTML, CSS, Node.js

Interests: Applied and Normative Ethics, Duke basketball, professional soccer, weightlifting