

## Profile

I am interested in creating dynamic, informative software to empower innovative organizations. I am seeking challenging opportunities where I will be able to make an immediate impact and where I will be able to grow my technical expertise regarding modern software engineering practices and large scale data analysis techniques.

## Education

- **University of Virginia**, Charlottesville, VA - Graduation: 2018
  - Bachelor of Arts in **Computer Science** and **Mathematics**
  - Cumulative GPA: 3.4/4.0

## Work and Research Experience

Software Engineer II | CarMax, Inc. | Washington, DC

**Jun 2021 – Present**

- Developed and tested a full-stack web application for customers to manage their appointments (React, Next.js, and .NET Azure Functions)
- Developed and promoted an internal shared library for reusable front-end components using Webpack
- Enhanced an existing full-stack web application for customers to search for vehicles and compare results

Software Engineer | FlyCast LLC | Denver, CO

**Mar 2021 – Present**

- Developed a paid customer rewards program to incentivize purchases with participating partners (Django)

Senior Software Engineering Consultant | CapTech Ventures, Inc. | Richmond, VA

**Aug 2018 – May 2021** (Consultant: Aug 2018 - Jan 2021, Senior Consultant: Feb 2021 - May 2021)

**Fortune 500 insurance holding company** (Apr 2020 - May 2021)

- Developed and tested a full-stack web application to track insurance claims within an interactive dashboard (Vue, Django, and SQL)
- Enhanced existing database ETL processes to normalize data from multiple source systems

**Fortune 500 automotive retailer** (Feb 2019 - Apr 2020)

- Developed and tested a full-stack web application to process vehicle sales (React and .NET)
- Developed features to relay customer loan requests to financial institutions in real-time using WebSockets
- Designed a primary production support dashboard and alerting system using Azure Application Insights
- Wrote automated tests using WebdriverIO

**Fortune 500 consumer product manufacturer** (Sep 2018 - Dec 2018)

- Developed and tested an API for verifying and authenticating user identities (.NET)
- Integrated internal authentication solutions with external solutions, such as LexisNexis

Data Analyst Intern | IST Research Corp. | Fredericksburg, VA

**May 2017 – Aug 2017**

- Developed and tested a data analytics API which connected to a database of text and images scraped from Twitter (Flask, ElasticSearch, and Docker)
- Developed endpoints to perform reverse image searches and natural language processing tasks such as sentiment analysis and named-entity recognition

Undergraduate Teaching Assistant | UVA Computer Science Department | Charlottesville, VA

**Jan 2017 – May 2018**

- Guided students in their efforts to construct formal proofs, under three different instructors, for the course Discrete Mathematics
- Held twice-weekly office hours to assist students with homework and exam preparation
- Graded homework submissions and exams for hundreds of students

Undergraduate Researcher | UVA Mathematics Department | Charlottesville, VA

**May 2016 – Aug 2016**

- Studied types of hypergraphs using an abstract algebra-oriented programming language (Macaulay2)
- Guided research on an unproven conjecture in abstract algebra by systematically generating examples of hypergraphs with a special quality