

## 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 & Consultant | CapTech Ventures, Inc. | Richmond, VA

**Aug 2018 – Present**

**Fortune 500 insurance holding company** (Apr 2020 - Present)

- 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 Core)
- Developed features to relay customer loan requests to financial institutions in real-time using WebSockets
- Designed the 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 Core)
- 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

## Skills

- Front-end web technologies: **JavaScript**, **TypeScript**, **React**, Redux, Vue, Gatsby, SCSS, and HTML
- Back-end web technologies: **.NET Core**, **Node.js**, **Express**, Django, Flask, and GraphQL
- Additional programming languages: **Python**, R, C++, C, C#, and Java
- Cloud technologies: **AWS** (Lambda, S3, EC2, CloudFront) and **Azure** (App Service, App Insights, Azure Functions, Redis Cache, SignalR, Key Vault)
- DevOps tools: **GitHub** and **GitLab CI**, TeamCity, Azure DevOps, and Docker