

Profile

As a professional software engineer, I have technical experience across a variety of domains, including front-end and back-end development, data engineering, data analysis, DevOps, and cloud architecture. I have worked on dynamic, cross-functional teams responsible for designing and developing new applications and supporting legacy systems. I am seeking opportunities where I can apply my functional expertise, drive business impact, and grow as a technical leader.

Education

University of Virginia, Charlottesville, VA

Aug 2014 – May 2018

- Bachelor of Arts: Mathematics and Computer Science
- Cumulative GPA: 3.4/4.0

Work and Research Experience

Senior Software Engineer | CarMax, Inc.

Jun 2021 – Present

(Software Engineer II: Jun 2021 – Aug 2023)

- Developed a suite of full-stack web applications and microservices to manage customers' documents throughout the transaction lifecycle
- Implemented authentication protocols for customer-facing and associate-facing web applications
- Partnered with architects and other engineers to create a roadmap for depreciating legacy software
- Designed and developed an Azure Data Factory pipeline to synchronize data across systems
- Developed and promoted a re-usable NPM package for React components shared across applications
- Designed production support dashboards for monitoring application usage using Azure App Insights and Splunk

Freelance Software Engineer | FlyCast River Forecast, LLC

Mar 2021 – Oct 2023

- Developed a full-stack Django web application to register customers to a paid membership rewards program
- Developed a Flask API and static React web application to help anglers improve their fly tying skills

Senior Consultant | CapTech Ventures, Inc.

Aug 2018 – May 2021

(Consultant: Aug 2018 – Jan 2021)

Fortune 500 insurance holding company (Apr 2020 – May 2021)

- Developed a full-stack Django and Vue web application for insurance adjusters to track claims within an interactive dashboard
- Enhanced existing SQL database ETL processes to normalize data originating from disparate source systems

Fortune 500 automotive retailer (Feb 2019 – Apr 2020)

- Developed a full-stack .NET and React web application to replace a legacy sales application
- Used SignalR to relay financing offers from lenders to customers in real time
- Wrote end-to-end integration tests using WebdriverIO
- Designed a production support dashboard for monitoring application usage using Azure App Insights

Fortune 500 manufacturing company (Sep 2018 – Dec 2018)

- Developed a .NET API for verifying user identities by integrating with a third-party provider (LexisNexis)

Data Analyst Intern | IST Research Corp.

May 2017 – Aug 2017

- Developed a Flask API to perform reverse image searches and natural language processing tasks, such as sentiment analysis and named entity recognition, by leveraging an Elasticsearch instance with images and text scraped from Twitter

Undergraduate Teaching Assistant | UVA Computer Science Department

Jan 2017 – May 2018

- Supported students in developing formal proofs and understanding set theory over three semesters, under three different instructors, for the course Discrete Mathematics

Undergraduate Researcher | UVA Mathematics Department

May 2016 – Aug 2016

- Partnered with the department chair to study hypergraphs with specific characteristics and used a mathematical programming language (Macaulay2) to generate data supporting an unproven conjecture in abstract algebra

Skills and Technologies

- Programming languages: C#, Java, JavaScript, TypeScript, Python, HTML, CSS, SQL, etc.
- Front-end tools and frameworks: React, Vue, Redux, Webpack, Vite, Module Federation, etc.
- Back-end tools and frameworks: .NET, Entity Framework, Node, Express, Django, Flask, etc.
- Cloud services: Azure and AWS