

Profile

I am interested in designing and developing software solutions for innovative organizations. I am seeking opportunities where I can make an immediate impact and where I will be challenged beyond just my specific skills as a software engineer. I am particularly intrigued by the potential of contributing to team projects with ambitious goals to transform vital industries, such as: renewable energy, transportation, healthcare, or education.

Education

University of Virginia, Charlottesville, VA

Aug 2014 – May 2018

- Bachelor of Arts: **Computer Science** and **Mathematics**
- 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 full-stack web application for customers to reserve vehicles and to schedule appointments
- Developed a system of integrated microsites and microservices for customers to upload documents required for transactions and for associates to review uploaded documents
- Architected an approach for authenticating customers' accounts before delivering their digital sales documents as a replacement for an externally contracted product
- Leveraged a third-party solution (IDEMIA) to automate verification of customers' driver's licenses
- Developed and promoted an internal shared library for reusable front-end components distributed via NPM
- Scripted deployment pipelines to manage cloud-based environments and implemented alerting to monitor outages
- Technologies: C#, .NET, TypeScript, React, Azure (App Services, Functions, Service Bus, Cosmos, etc.)

Freelance Software Engineer | FlyCast River Forecast, LLC

Mar 2021 – Oct 2024

- Developed an experimental paid customer rewards program to incentivize purchases with participating partners
- Developed an experimental search tool for anglers of all skill levels to improve their fly tying skills
- Technologies: Python, Django, Flask, JavaScript, React, PHP, SQL, Google Cloud

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 web application for adjusters to track insurance claims within an interactive dashboard
- Enhanced existing database ETL processes to standardize data originating from disparate source systems
- Technologies: Python, Django, JavaScript, Vue, SQL

Fortune 500 automotive retailer (Feb 2019 – Apr 2020)

- Developed a full-stack web application to modernize vehicle sales, vehicle acquisition, and customer financing
- Relayed customer financing offers from internal and external lenders directly to customers' in-progress sales orders
- Designed a production support dashboard for monitoring releases and usage metrics
- Technologies: C#, .NET, TypeScript, React, Redux, Azure (App Services, Insights, Key Vault, SignalR, etc.)

Fortune 500 manufacturing company (Sep 2018 – Dec 2018)

- Developed a headless service for verifying and authenticating user identities by integrating internal solutions with a third-party solution (LexisNexis)
- Technologies: C#, .NET

Data Analyst Intern | IST Research Corp.

May 2017 – Aug 2017

- Developed an API to perform reverse image searches and natural language processing tasks, such as sentiment analysis and named-entity recognition, on a database of text and images scraped from Twitter
- Technologies: Python, Flask, Elasticsearch, Docker

Undergraduate Teaching Assistant | UVA Computer Science Department

Jan 2017 – May 2018

- Guided students in their efforts to write formal proofs and understand set theory, under three different instructors, for the course Discrete Mathematics

Undergraduate Researcher | UVA Mathematics Department

May 2016 – Aug 2016

- Studied hypergraphs with special characteristics using a mathematics centric programming language (Macaulay2) to guide research on an unproven conjecture in abstract algebra