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## EMPLOYMENT

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Seattle, WA **Amazon FinTech** July 2018 - Present

- Work on and improve the accuracy of a datapipeline that uses Apache Spark SQL on EMR to process financial data, allowing Amazon to make more agile financial decisions
- Received org-wide "Needle Mover" award within first four months for architecting and implementing a modular, configurable data pipeline
- Decreased EMR costs by ~\$6000 per month by proposing and implementing a change to increase efficiency in EMR utilization
- Created a tool to decrease data backfill times by a factor of 10x, increasing efficiency of data engineering tasks

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Seattle, WA **Amazon AWS EC2** Summer 2017

- Created a data-visualization dashboard to track capacity of servers in EC2, that processes hundreds of GB of new data per day

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Richmond, VA **Capital One** Fall 2016 - Spring 2018

- Created a full-stack web application for managing authorization roles, utilizing Angular2, MongoDB, and Node
  - Designed MongoDB schema for the app and created a RESTful API to restrict access to the database

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Richmond, VA **VCU Labs & Classrooms Computing** Fall 2014 - Spring 2017

- Created Idle Actions chrome extension for computer lab security
- Worked on an electron app, utilizing Knockout.js, to facilitate the naming and setup of new computer lab machines
  - Uses active directory for authentication
  - Uses Chocolatey to install packages, tying in with the Proget API to pull a list of internally hosted applications

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Richmond, VA **UPS Freight** Summer 2015

- Created an internal-use full stack web application with the Spring framework, Oracle SQL, Bootstrap, and jQuery to aid in data correction/security

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## EDUCATION

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Richmond, VA **Virginia Commonwealth University** Fall 2014 - May 2018

- Computer Science graduated Magna Cum Laude
- Vice President of Computer Science Student Advisory Board

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Alexandria, VA **Thomas Jefferson HS for Science and Technology** 2009 - 2013

- 4.14 GPA
- Ranked the best public high school in the nation by US news from 2007-2013

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## PROMINENT PROJECTS

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**Arkmo** Spring 2018

- Won the \$4000 prize at Bitcamp 2018, for best use of blockchain
- A system built on top of Ark coin, used to safely send cryptocurrency to other users. Doing so requires that the receiving user verifies the transaction, ensuring that money isn't accidentally sent into a non-existent address

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## Personal Life Hacks

- Created script to watch full-classes and auto-register when a space opens up
- Created a Twilio app for my apartment callbox so I can access my apartment building if I don't have my key fob and phone

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 **[Operating System Simulator](#)** Fall 2016

- Operating System Simulator built in Java
  - Implements a multi-level priority queue
  - Simulates virtual memory/swapping
- Received a 105% in the class when the average and median were both less than 73%