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## Education

### M.S. Computer Science

Old Dominion

University

Norfolk, VA

GPA: 3.8

August 2018 - May 2021

#### Coursework:

Algorithms & Data structures, Distributed Systems, Data Science, Big Data, Machine Learning, Numerical Methods, Cryptography, DevOps, Databases.

#### Projects:

**LiftRight** || Swift, Rust, Matlab, iOS, 2D Graphics, HCI, CI/CD, Kubernetes, MongoDB

Repetition and set segmentation algorithm for early, online identification of weight training exercises using a single sensor, and gamified platform for guiding a user into modifying their form.

**Thematic Movie Recommendation Engine** || Python, Machine Learning, Scikit-learn

Movie recommendation engine based on thematic elements pulled from movie scripts. Word2Vec and TF-IDF models.

**Trend seeking in NYC with CitiBike** || Python, Apache Spark, Big Data

Leveraged GIS, Citibike, and IRS datasets to identify changing trends in New York City neighborhood tax data.

#### Associations:

**Association for Computing Machinery** | National member

**ACM-W** | ODU chapter vice-president (2020 - present)

### B.S. Computer Science

Temple University

Philadelphia, PA

GPA: 3.2

August 2006 - May 2010

#### Coursework:

Algorithms & Data structures, Foundations of Computing, Discrete Mathematics, Calculus, Philosophy.

#### Internships:

**Jolicloud** | Paris, Fr. | Ruby on Rails, SQL, C#, Mono, Linux

**Google Summer of Code** | C#, Gtk, Mono

## Professional Experience

### Ford Credit

February 2021 - Present

**Full-Stack Engineer** | Java EE, Spring Boot SQL, JavaScript, Vue, HTML, CSS, Extreme

Programming

Writes legible, performant, and reusable software. Creates and maintains tests to ensure longterm software health and quality. Removes code duplication across multiple code bases Recognized thought leader in object oriented design. Participates in Agile development and ceremonies.

### U.S. Navy

August 2014 - May 2021

**Navigation Electronics Technician (Submarines) First Class** | Operations, AC/DC/Digital electronics, TS/SCI, Instructor

Adaptable to high operational-tempo environments: 3 overseas deployments in 4 years.

Responsible for ensuring critical equipment operational and maintained to support an unpredictable and high-tempo operational schedule. Direct supervisor for division of 5-7 sailors during overseas deployments; responsible for safe undersea navigation and all preventative and corrective maintenance for ship's critical navigation and interior communication systems.

Designed and taught curriculum for advanced submarine navigation which is delivered to senior submarine navigation personnel across the submarine force.

Trained 10 personnel from initial ascension qualifications through senior qualifications. 100% advancement to Second Class Petty Officer for sailors who were assigned as mentees.

Awarded: Navy & Marine Corps Achievement Medal (6), Good Conduct Medal (2), 2018 USS San Francisco Junior Sailor of the Year.

**Trilogy Education Service**

July 2019 - December 2019

**Full-Stack Developer Mentor** | Ruby on Rails, SQL, JavaScript, React, HTML, CSS, Heroku, AWS, Git

Provided weekly 1-on-1 assistance and professional mentorship to students enrolled in Full Stack Web Development bootcamp provided through multiple universities. Provided technical and career coaching to students as they progressed from creating static HTML and CSS websites to building complex, interactive web apps powered by Ruby on Rails, PostgreSQL, and React.

**Canonical Ltd**

November 2010 - February 2013

**Software Engineer** | Python, C++, C, JavaScript, Linux, Bash, Jenkins, Bazaar, QA, Devops

Developed automated user acceptance and integration testing framework for flagship product. Lead transition to continuous integration development model for multiple projects.

**Projects**

**MonarchBot** | Rust, CI/CD, Docker, Mailgun, Kubernetes

Discord bot for protecting ODU CS students from cyber-abuse by verifying members of community Discord server have a valid @odu.edu email address.

**Environmental Chemistry** | R, Python, React, Bash, HPC, Docker

Assist Hatcher Geochemistry lab group with various data analysis and visualization scripts; simple live Text-to-QR generator developed for Hatcher geochemistry lab.