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## Professional Experience

### Red Ventures

January 2022 - Present

#### Senior Backend & Data Engineer | C#/.NET, Rust, AWS, Databricks, DBT, Scala, DevOps

Lead technical teams and own stakeholder communication with marketers, and business leaders. Build, own and operate API servers, front-end infrastructure, and modern data pipelines. Build, operate, and optimize ELT pipelines in a modern data stack.

### Ford Credit

February 2021 - September  
2021

#### Full-Stack Engineer | Java, Spring Boot, SQL, Vue, AI/ML, XP

Built AI backed personalized recommendation system helping to increase LTV of Ford Credit customers. Mentored 4 software engineer interns through planning and delivery of customer facing software. Created and maintained tests to ensure long-term software health and quality. Decreased a critical API response time from over 3s to under 500ms. Participated in cross team planning and incident response, increasing team autonomy. Lead large refactoring effort of detangling poorly performing, highly coupled classes to clean modular, and high performing architecture.

### U.S. Navy

August 2014 - May 2021

#### Navigation Electronics Technician (Submarines) First Class | Operations, AC/DC/Digital

electronics, TS/SCI, Instructor

Direct supervisor 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. Awarded: Navy & Marine Corps Achievement Medal (8), Good Conduct Medal (2), 2018 USS San Francisco Junior Sailor of the Year.

### 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 desktop product. Lead transition to continuous integration development model for multiple projects. Part of a scrappy, mission driven team.

## Education

### M.B.A. (in progress)

University of Michigan  
Ross School of  
Business  
Ann Arbor, MI

#### Coursework:

Strategy, Accounting, Marketing, Leadership

#### Projects:

**Solagron** | Marketing, Strategy, Finance Helped develop a GTM strategy for a start-up spirulina producer located in Vietnam.

May 2022 - May 2024

**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 - 2021)

**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