

## EXPERIENCE

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### DataRobot

Boston, MA

*Backend Python Engineer*

*July 2019 - Present*

Member of a machine learning engineering team which owned the core machine learning estimators and algorithms of the product, as well as the machine learning automation algorithm.

- Vetted, introduced and hand-tuned new estimators
- Extended the hyperparameter search algorithms to work with categorical variables
- Implemented functionality to let users submit models as Docker containers to leverage DataRobot's modeling and introspection algorithms.
- Spruced up old code.

### Amazon Alexa

Cambridge, MA

*Software Development Engineer*

*September 2017 to May 2019*

Member of data engineering team for NLP scientific tooling as their numbers grew an order of magnitude. The team was responsible for migrating tools and ML/AI model building and testing workflows from scientist scripts into services, stabilizing and securing the models and services, while making tooling changes as Alexa supported new features. Worked in Python and Java, heavily with Spark, and utilized many major Amazon products

- Led tooling migration to execute on a new, more secure experimentation platform, which involved collaborating across teams with scientists, InfoSec, and the platforms engineers as an initial customer.
- Secured development on our model training and release orchestrator, brought attention across the organization to a systemic process flaw
- Architected and built organizations first customer-facing service, allowing domain-specific teams and third-party scientists to craft NLU ground truth simultaneously.

### Amazon

Seattle WA

*Software Engineering Intern*

*June 2016 to August 2016*

Designed, wrote, tested, and deployed worldwide a service for the EC2 group to automate host recovery. The service was written using Ruby and MySQL, and follows AWS best practice coding and testing standards. It saves Amazon tens of millions of dollars per year in recovered compute capacity.

### University of Maryland

College Park, MD

*Undergraduate Teaching Assistant*

*September 2015 to December 2015*

Taught a discussion class for CMSC330 Programming Languages under Michael Hicks and held office hours weekly. The curriculum included Ruby, OCaml and Prolog and taught parsing, automata, garbage collection and language security. Worked with the professor to develop new project material in Ruby to teach students network securitization.

### Autonomous Marine Systems

Washington DC

*Intern*

*June 2014 to August 2014*

Investigated many middleware packages and computer vision software packages and recommended best fit for marine robot navigation. Ported existing stack from an Android based system to an ARM based embedded system running MOOS-IvP in C and C++ and set up framework for further development.

## EDUCATION & TRAINING

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### University of Maryland, College Park

*September 2013 to May 2017*

B.Eng. Computer Engineering - GPA 3.67

- University Honors, Banneker Key Scholar, National Merit Scholar
- Active member of the hiking club, drove city busses for a year, DJ'ed a radio show for three years, and was a member of the CHUM housing cooperative.