

Mujtaba Tirmizi

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Interests: Machine Learning, Data Science, Robotics

Tools: Python, R, C++, SQL, MATLAB, Pig, Git, Hadoop, NLP, Scikit-Learn, Numpy, Pandas

Experience

Amazon (A9.com)

Palo Alto, CA, USA

May 2017 – Aug 2017

[Python](#), [R](#), [Apache Hadoop](#),
[Git](#), [LightGBM](#)

Software Development Engineer Intern - Machine Learning

- Owned research project to explore training relevance ranking model for Amazon Business customers
- Experimented basic connectivity based clustering techniques to identify behavioural similarities in different retail categories
- A/B tested and evaluated performance of multiple iterations of the model on live traffic
- Launched final version of model live now in production with big OPS metric wins; helping to reach end of year team goals

Amazon (A9.com)

Palo Alto, CA, USA

Aug 2016 – Dec 2016

[Python](#), [Apache Hadoop](#),
[Pig](#), [Git](#)

Software Development Engineer Intern - Machine Learning

- Designed engagement features for Amazon Video
- Built data pipeline with Map-Reduce jobs to get new feature from raw logs cutting latency in pipeline down by **75%**
- A/B tested with new data pipeline and features live in production on **millions** of users

Athos

Redwood City, CA, USA

Jan 2016 – Apr 2016

[Python](#), [C++](#), [SQL](#), [Numpy](#),
[Scikit-Learn](#), [Scipy](#), [Pandas](#),
[Git](#), [MATLAB](#)

Data Engineer Intern

- Developed library of algorithms in Python and C++ to segment exercise sessions using sensor data (EMG, Accelerometer, HR)
- Built test scripts to analyze user workout sessions and reach out to customers with defected hardware to replace

Capital One

Waterloo, ON, CAN

May 2015 – Aug 2015

[Python](#), [SQL](#), [Tableau](#)
[Scikit-Learn](#), [Pandas](#), [NLP](#)

Data Scientist Intern

- Trained SVM Classifier to classify customer feedback comments based on topic with **85%** accuracy, replacing third party software with 60% accuracy
- Designed Reporting Tool on top of classified data showing trends in customer feedback, tool is used to this day

Achievers

Toronto, ON, CAN

Sept 2014 – Dec 2014

[PHP](#), [SQL](#), [Git](#)

Software Developer Intern

- Refactored major portions of existing PHP backend from MVC architecture to modular Service Oriented Architecture (SOA)

Projects

Autonomous Robot

[C](#), [Arduino](#), [Project Management](#)

- Lead team of 5 engineering peers to design autonomous robot. Designed project plan, managed resources, scheduled meetings and ensured team met necessary deadlines for completion.

Education

University of Waterloo

Waterloo, ON, Canada

Sept 2014 – Apr 2018

[GPA: 3.9](#)

Bachelor of Applied Science: Mechatronics Engineering

- **Dean's Honour:** Four Terms (*Most Recent Term: Jan'17-Apr'17*)
- **Ranked 7th**/106 students in most recent semester
- **President's Scholarship of Distinction:** +95% admission average
- **President's Research Award (\$1500)**