

EMPLOYMENT

Research Assistant **École polytechnique fédérale de Lausanne (EPFL), Switzerland** **Fall 2017**

- Researching under Prof. Jean-Pierre Hubaux on quantifying the effect of co-location information on location privacy on social networks.
- Applying statistical inference on co-location data to develop strategies to prevent adversarial risk.

Software Engineer Intern **Amazon, Seattle WA** **Summer 2017**

Information Security team

- Built a web service that manages metadata for big data related to security logs and breaches.
- Worked with Dynamo DB, Transaction library, Scala and various internal tools.

Software Engineer Intern **Trading Technologies, Chicago IL** **Summer 2016**

- Wrote automated unit tests, and integration tests for an algorithmic trading product called ADL.
- Enhanced functionalities of the in-house testing framework.

Research Assistant **State University of New York, Buffalo NY** **Spring 2016**

- Wrote scripts to analyze data on power usage by services like WiFi and GPS on Android OS.
- The scripts were used on a new implementation to accurately account for the asynchronous usage of resources in mobile systems.

Software Engineer Intern **Google Summer of Code** **Summer 2015**

- Selected as one of the 1051 students from 73 countries in the world.
- Developed support for constellation artwork in KStars, open source planetarium software under the KDE education project.
- Worked with C++ and the Qt Framework to draw constellation images.

EDUCATION

Buffalo, NY **State University of New York at Buffalo** **Expected- Dec 2017****Bachelor of Science in Computer Science**

GPA: 3.873/4.00

Bachelor of Arts in Mathematics

Placed in Dean's List

- **Coursework:** Information security, **Data Oriented Computing, Machine learning**, Networking, Theory of Computation, Data Structures and Algorithms, Software Engineering, Numerical Analysis, Discrete mathematics, Graph Theory, Linear Algebra, Operations Research, Optimization, Elementary Real Analysis, Differential and Integral Equations, Probability and Statistics.
- **Transferred from BITS Pilani, a top engineering school in India**

PROJECTS

- **Handwriting Classifier** using a multilayer perceptron and a support vector machine. It produced a 97% accuracy using 50,000 images from the MNIST database. **Python, Numpy, Scipy, Matplotlib, Scikit-learn**
- **Reliable Transfer Protocols** Implemented Alternating bit, Go back N and Selective repeat protocols using UDP sockets. **C++, TCP/UDP Socket programming**
- **Tutr** An app to match students to tutors for tutoring sessions with support for payment integration with PayPal, and ability to login with Facebook OAuth. Django Rest Framework, Python, AngularJS, Ionic Framework
- **Analyzing naming trends in USA** Used python data wrangling to find interesting trends in baby names in the USA since 1800.

SKILLS

- Java, Python, C++, Scala, HTML, CSS, JavaScript, Numpy, Scipy, Matplotlib, Scikit-learn
- MySQL, Dynamo DB, Git, WordPress, Adobe Photoshop, After Effects, Bash scripting
- Offensive security – Penetration testing with Kali Linux – ongoing certification