

Ritwik Gupta

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languages

Python
Java
Scala
HTML
CSS
JavaScript
MIPS
C

technologies

Apache Spark
Mesos
YARN
Hadoop
Scikit
NLTK
Android
Flask
Apache
(LAMPP/XAMPP)

coursework

CS441

> Discrete Math

CS445

> Data Structures

CS447

> Computer
Organization

CS449

> Systems
Programming

education

2014 - 2017 **B.Sc.** majoring in Computer Science

GPA: 3.710

Concentration in Data Science + Software Engineering

University of Pittsburgh

awards

- Winner + Best Use of Data – NASA International SpaceApps Pittsburgh
- Winner – Pitt SmashMash! Entrepreneurial Challenge

experience

May 2015 - Now **Staples SparX/Staples Innovation Labs**

Data Science Intern

Building recommender systems for

Staples, the 2nd largest online retailer globally.

- > Model was put into production on Staples.com and emails, outperforming existent models.
- > Custom ML modeling using NLP techniques.
- > Working with Apache Spark, Hadoop, Mesos, YARN, and Python.

Jan. 2015 - Now **University of Pittsburgh (Chemistry)**

Front-End/Mobile Developer

Developing the Pitt Quantum Repository, a web platform for molecular visualizations and data.

- > In use by Pitt's general chemistry and biology classes.
- > Working with Flask, Bootstrap, LESS, JavaScript, HTML, and Grunt.

Jun. 2014 - Now **Independent/Open-source**

Android Developer

Creating Pittsburgh Realtime Tracker, the first and most popular real-time bus tracking app in Pittsburgh.

- > Over 10,000 users in the Pittsburgh region.
- > Used Android Studio, Java, XML, and GIMP.

Jun. - Sep. 2014 **University of Pittsburgh (Biomedical Informatics)**

Data Science Intern

Creating machine learning algorithms to categorize driver and passenger mutations given whole-genome data.

- > Worked with Python, Theano, nVidia CUDA, and Scikit.

Jun. - Aug. 2013 **University of Pittsburgh (Biomedical Informatics)**

Research Intern

Analyzing the frequency and distribution of palindromes in the entire human genome, with focus on AML.

- > Developed tools in Java, Python, HTML, JavaScript, and D3.

publications

Distribution of Palindromes in the Human Genome. Journal of Pathology Informatics. March 28, 2014.