

RITWIK GUPTA

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Skills

LANGUAGES

Python
Java
Scala
HTML
CSS
JavaScript
C
MIPS

TECHNOLOGIES

Apache Spark
Hadoop
Mesos
YARN
OpenMP
MPI
CUDA
Flask
Android
Scikit
NLTK

COURSEWORK

Discrete Mathematics
Data Structures
Computer Organization
Systems Programming
Algorithms
Parallel Computing
Compilers
Operating Systems

Education

University of Pittsburgh
BS Computer Science 2017
GPA: 3.710

Employment

Staples SparX/Staples Innovation Labs San Francisco Bay Area
Data Science Intern May 2015 to Aug 2015
Built recommender systems for Staples, the world's 2nd largest e-commerce retailer. Created models were put into production on Staples.com and emails, outperforming existent models. Utilized novel ML modeling using NLP techniques.
Worked with Apache Spark, Hadoop, Mesos, YARN, and Python.

University of Pittsburgh (Chemistry) Pittsburgh, PA
Full-Stack/Mobile Developer Jan 2015 to Current
Developing the Pitt Quantum Repository, a web platform for molecular visualizations and data. PQR is currently in use by Pitt's general chemistry and biology classes. Working with Flask, Bootstrap, LESS, JavaScript, HTML, and Grunt.

Rectangle Pittsburgh, PA
Android Developer Jun 2014 to Current
Created Pittsburgh Realtime Tracker, an Android application to track the public buses of Pittsburgh in real-time. The app has over 15,000 users and is the most popular bus tracking app in the region.

University of Pittsburgh (Biomedical Informatics) Pittsburgh, PA
Data Science Intern Jun 2014 to Sep 2014
Creating machine learning algorithms to categorize driver and passenger mutations given whole-genome data of people with cancer.
Worked with Python, Theano, nVidia CUDA, and Scikit.

University of Pittsburgh (Biomedical Informatics) Pittsburgh, PA
Research Intern Jun 2013 to Sep 2013
Analyzing the frequency and distribution of palindromes in the entire human genome, with focus on acute myeloid leukemia. Developed tools in Java, Python, HTML, JavaScript, and D3.

Awards

Pitt SmashMash Entrepreneurial Challenge · Winner
NASA International SpaceApps Pittsburgh · Winner + Best Use of Data
Red Bull Hack The Hits · Winner

Publications

Distribution of Palindromes in the Human Genome. Gupta, Cheng, and Hammond. Journal of Pathology Informatics. March 28, 2014.