

Ritwik Gupta

> Experienced With

- Java/Android
- Python
- Machine Learning
- HTML/CSS
- SQL
- C#

> Familiar With

- C++
- C
- Arduino

> Libraries

- OpenCV
- Flask
- Bootstrap
- Parse
- D3
- Google Maps API

> Version Control

- Git

> Miscellaneous

- Apache
- Hackathons

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SELECTED EXPERIENCE

January 2015 – Present

University of Pittsburgh Department of Chemistry

Front-End/Mobile Developer

- > Pitt Quantum Repository
- > Creating a platform for students to easily access molecular visualizations.
- > Designing a system that will efficiently access, display, and manipulate molecules across a wide variety of desktop and mobile platforms.

June 2014 – September 2014

University of Pittsburgh Department of Biomedical Informatics

Undergraduate Research Assistant

- > Working with Dr. Xinghua Lu to find driver and passenger mutations in tumors.
- > Applied machine learning concepts such as Bayesian Casual Inference to big data in order to extract meaningful knowledge. GPU computing and parallel computing were used.
- > Algorithm efficiency analysis to speed up runtime.

June 2014 – September 2014

Independent Work (Rectang[le])

Android Programmer and Designer

- > Created Android application to track public buses of Pittsburgh in real time.
- > Back end development (API interfacing), app development, and icon designer.
- > <http://bit.ly/pittRealTimeBus>

June 2013 – August 2013

University of Pittsburgh Department of Biomedical Informatics

Undergraduate Research Assistant

- > Worked with Dr. Madhavi Ganapathiraju to analyze palindromes in the human genome.
- > Applied data from whole genome to Acute Myeloid Leukemia to find correlations.
- > Published in *Journal of Pathology Informatics*.

EDUCATION

August 2014 – May 2017

University of Pittsburgh, Pittsburgh, PA

Bachelors of Science

- > Computer Science
- > High Performance Systems (expected)

PUBLICATIONS

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

REFERENCES: AVAILABLE ON REQUEST