# Induja Chandrakumar

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### Experience

Doxey Lab, University of Waterloo - Undergraduate Bioinformatics Researcher

February 2016-present

- Developed data analysis pipelines and bash/python scripts to analyze large-scale genomic data, and uncovered new information about the evolutionary process in Arabidopsis thaliana, a model plant
- Conducted self-directed research, and communicated findings to the supervising professor (with the help of data visualization using R)

Lolle Lab, University of Waterloo - Research Assistant

May 2016-August 2016

- Created bash scripts to determine support for the supervising professor's hypothesis
- Communicated the workings of my programs to a non-technical professor of plant biology
- Did hands-on biology: isolating DNA from plant samples, running PCR reactions and gel electrophoresis, etc.

#### Education

University of Waterloo · Bachelor of Computer Science, Honours

2015-2019

Selected Coursework: Object Oriented and Functional Paradigms · Probability

University of Waterloo · Bachelor of Biology Science, Honours

2015-2019

 $\blacksquare \quad \text{Selected Coursework: Bioinformatics} \cdot \text{Applied Molecular Biology} \cdot \text{Statistics}$ 

### Projects / Extracurriculars

^/Hour of Regex/\$ · Android (Java, Python)

September 2016

- Tutorial app that interactively teaches the basics of Regular Expressions
- Has active users in over 35 different countries
- Available on the Google Play Store

Biology Syntax Highlighting for Sublime Text (Python)

August 2016

Syntax highlighting for common file formats used in Bioinformatics (FASTA, phylip, newick)

Triangle Tetris · Java (Swing)

August 2015

Reimagining Tetris, with rotating triangles as opposed to blocks

Science Advisor - University of Waterloo Robotics Team, Mars Rover

September 2015-present

- Collaborated science plan as only biologist on a tech-oriented team of chemists and engineers, using both own knowledge about extremophiles and copious amounts of research/literature searches
- Developed skills in programming for robotics using the ROS (Robot Operating System) framework

## Languages

Proficient in: Bash, Java, C++, Python, C, Racket/Scheme

Exposure to: R, SQL, Ruby, HTML/CSS, Javascript (Node, React, Angular, jQuery), ROS

#### Research Interests

Accessibility, specifically for the visually impaired · All things genomics · Evolution