

# Corey Wu

3B Computer Engineering

github.com/coreywu • c69wu@uwaterloo.ca

## SKILLS SUMMARY

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### Languages:

- **Experienced with:** Java, Scala, Python
- **Familiar with:** C, C++, C#, ARM Assembly, JavaScript, PHP, Bash, VHDL

**Technologies:** Apache Solr, Apache Spark, Android, ANTLR, PostgreSQL, MySQL, Amazon EC2, Vagrant

## EXPERIENCE

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### Bloomberg L.P.

New York City, NY

*Software Engineering*

May. 2015 – Aug. 2015

- Designed and built domain specific language component of distributed Solr analytics project using ANTLR; created a generic, extensible DSL framework to build parsers for DSLs with functional syntax.
- Implemented parser and executor to run Spark operations for analytics on Solr documents.

**Key Technologies:** Apache Solr, Apache Spark, ANTLR, Jetty.

### Toast Inc.

Boston, MA

*Software Engineer Intern*

Aug. 2014 – Dec. 2014

- Designed and implemented data models and JSON serialization/deserialization logic for new Customer Relationship Management component; wrote scripts for database migrations.
- Developed features and bug fixes for Android application and Java Play webserver.

**Key Technologies:** Android, PostgreSQL, Play Framework, JavaScript, Heroku, Hibernate.

### Seeq

Seattle, WA

*Software Developer Intern*

Jan. 2014 – Apr. 2014

- Developed cloud-based integration test architecture to automatically spin up VMs and execute tests on.
- Implemented features for monitoring and configuration of server application
- Worked with graph databases (Titan & Neo4j) and researched Big Data technology.

**Key Technologies:** Titan, Vagrant, Amazon EC2, Python.

## PROJECTS

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### Embedded Connect4 Game

- Built Connect 4 game with AI on TI TM4C123 Microcontroller with LCD graphics display.
- Implemented minimax algorithm with alpha-beta pruning for fast and intelligent AI.

### UW Food Menu

- Designed an Android application which displays food services data from the University of Waterloo API.
- Implemented caching of data on device and integrated with Google Maps API.

### UW Co-op Data Analysis

- Analysis of UW co-op data using Apache Spark.
- Implemented graph algorithms such as PageRank and Connected Components.

**Relevant Courses:** Algorithms & Data Structures, Compilers, Operating Systems, Computer Networks, Databases