Corey Wu

3B Computer Engineering
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SKILLS SUMMARY

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

Bloomberg L.P. New York City, NY
Software Engineering May. 2015 – Aug. 2015

- Designed and built domain specific language component of a 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.
- 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

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