

Michael Richards  
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## COMPUTER SKILLS

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### Languages

- Proficient in: Java, Python, C++, JavaScript, HTML, CSS, SQL, React, Pascal
- Familiar with: PostgreSQL, C, Django, Google Firebase, AWS Appsync

### Software Platforms

- Linux (Ubuntu, Raspbian, Kali) (Main Platform is Ubuntu)
- Windows

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## RECENT PROJECTS

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### Pascal Compiler Written in Java

Jan 2020-May 2020

- Used the Java language to design a compiler that takes in most of pascal's basic functionalities
- Parsed files from a text file, Tokenized parsed code into meaningful pieces, Stored the Tokens into a symbol table, executed code based off Tokens stored in the symbol table
- Solo project that took the course of several months to research and code
- Pascal functionalities that I got to work: Basic Arithmetic, procedures, arrays, case statements, while statements, if statements, for loops, labels, goto, assignment, declarations, repeat, functions

### 4 player (online) battle arena game

Spring 2019

- Primarily worked on the front end with some minor touchups on the backend
- Worked in a team of 5 to develop and deploy our own HTML based game
- Used JavaScript (ES5/ES6), HTML, CSS, React, Firebase, AWS (amplify, appsync) and the phaser3 framework to develop a functioning game
- Wrote unit test and documentation using Jest and JSDocs

### Developed a simple game and trained an AI to be good at it

Spring 2019

- Developed a simple game for our AI to learn (similar to the classic game asteroids)
- Used the processing programming language for its easy to use visual sketchpad
- Applied Neural Networks, Genetic Algorithms, Reinforcement learning to the project
- Refined the artificial intelligent algorithm in order to optimize its in game survival skills

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## WORK EXPERIENCE

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### United Postal Service, Bronx — Package Handler

November 2019- March 2020

- Remained an integral part of preloading all the packages onto the trucks in the morning before the drivers arrived from 12am-9am

### Everlasting Hope, Bronx — Camp Counselor

July 2019 - September 2019

- During the summers I took the responsibility of mentoring the young kids in the age groups of 5-12-year olds. Helping them with academic work, resolving their personal issues, and teaching them responsibility.

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## EDUCATION

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### City College of New York

May 2019

*New York, New York*

- Bachelor's in computer science
- GPA: 3.068