

# Michael Kim

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## Education

### University of Utah

Bachelor of Science, Computer Science

2019

GPA: 3.72/4.00

### Georgia Institute of Technology

Masters of Science, Computer Science

GPA: 4.00/4.00

## Projects

### Pokémon Battle Simulator

- Led development of a full stack web application using Spring, Thymeleaf, PostgreSQL, and React
- Organized weekly meetings and delegated tasks to complete assigned functional and nonfunctional requirements
- Developed the application from the ground up starting with project planning, using UML diagrams, to project implementation
- Utilized Spring Data to persist and query Pokemon data
- Implemented user authentication and authorization using Spring Security
- Used Docker to create containers for the Spring application and PostgreSQL database

### Product Aggregator and Tracker

- Led development of a full stack web application, with 3 other engineers, assigning tasks, managing timelines and scheduling meetings to deliver completed and on time with added features including notifications and tracking
- Developed a REST API to query a MySQL database containing over 20,000 different products
- Aggregated data, through APIs and web crawlers, from 6 major retailers allowing users to quickly find the current lowest price of an item and track its price history over 4 months. Used C# and MySQL with HTML agility pack to crawl
- Optimized searching and filtering by using indexes and full text searches in the MySQL database so that products would appear moments faster
- Constructed a complete single-page application using Angular, Typescript, Bootstrap, HTML, and CSS
- Improved search results by ranking with more relevancy based on number of matches and the importance of the search terms
- Increased security of user accounts through salted passwords and sanitized user inputs to prevent issues with database injections
- Designed and developed the project in a 6-month sprint using agile practices with GitLab and deployed on an AWS stack

### Car Pool Reservation Service

- Created a full stack car reservation application with 1 other engineer to improve school issues regarding limited parking areas
- Implemented account creation, car registration, car reservation, and cancellation using MySQL, JavaScript, Bootstrap, HTML, and CSS

### Multi-client Spreadsheet

- Built a excel style spreadsheet in C# that would allow users to collaborate on projects
- Implemented functions such as undo, redo, and highlighting to satisfy user needs for increased productivity

## Skills

**Languages:** C#, Python, Django, Java, HTML, CSS, JavaScript, Typescript, MySQL

**Technologies:** Bootstrap, Angular, AWS

**Other:** API Design, Relational Databases, Object-Relational Mapping