

# Matthew Kim

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## EDUCATION: JOHNS HOPKINS UNIVERSITY

*Major:* B.S. Computer Science

**September 2016 – May 2020**

*Baltimore, Maryland*

**Selected Coursework:** Object Oriented Software Engineering, Intro Algorithms, Data Structures, Computer Networks, Artificial Intelligence, Blockchains and Cryptocurrencies, User Interfaces and Mobile Applications, Python for Data Science Applications, Computer System Fundamentals, Computer Science Innovation and Entrepreneurship

## SKILLSET

**Programming Languages:** Java, Kotlin, Python (NumPy, Pandas), C/C++, HTML, CSS

**Tools:** Git, Valgrind, JUnit4, Mockito, Android Studio, IntelliJ IDEA, L<sup>A</sup>T<sub>E</sub>X, JIRA, AWS EC2, AWS S3, DigitalOcean

**Frameworks:** Jersey, Django, Flask, Bootstrap

**Databases:** Firebase, SQLite, MySQL

## PROFESSIONAL EXPERIENCE

### AMAZON

**June 2019 – August 2019**

*Software Development Engineer Intern*

*Seattle, Washington*

- Designed and developed a new method to create Alexa Skills using an excel upload system for the 200,000 monthly active users
- Constructed a new JSON schema that details the format and structure of each blueprint's excel file
- Implemented APIs for the new upload system using Java's Jersey framework to both programmatically create excel templates from excel and data JSON schemas, and to parse excel files for relevant skill data to create an Alexa Skill

### MEDHACKS

**January 2018 – September 2019**

*Tech Team Lead*

*Baltimore, Maryland*

- Led a team of 8 engineers and designers to streamline the hackathon's acceptance and travel reimbursement process
- Transformed the organization's website from a static webpage, to a fully functional dynamic website with account creation, login/registration, travel reimbursement, team registration, and an application portal
- Website received tens of thousands of views, over 5000 account creations, and thousands of submitted applications within 6 months
- Helped manage budget of over \$60,000 with other members of the executive team to organize the 3-day event

### SIGNAL

**June 2018 – August 2018**

*Product Management Intern*

*Chicago, Illinois*

- Wrote project specifications and code to map tens of millions of client user IDs to our vendor IDs for a Fortune 500 client
- Located discrepancies in our main internal product when onboarding data, then created epics and associated stories to transform the application to be more client facing in its transition to a self-servicing product
- Produced several JIRA product boards to assist product managers and developers analyze what stories need to be completed in current and future sprints

## PROJECTS

### Spotipic

**June 2020**

*Creator/Developer*

- Created an application in which a user uploads a picture, and then it recommends a song that is similar to the picture
- Employed Google Vision API to analyze the photo by extracting key colors and labels, Textblob to collect sentiment analysis on said labels, and then Spotify Web API to search for relevant songs

### HQ-BOT

**September 2018**

*Creator/Developer*

- Helper bot for the HQ Trivia game application with 75% accuracy for questions
- Utilized QuickTime for phone mirroring, Tesseract OCR for image to text translation, and Google Custom Search API for querying and results

## LINKS

**Personal Website:** matthewsmkim1.github.io

**GitHub:** <http://github.com/matthewsmkim1>

**LinkedIn:** <https://www.linkedin.com/in/matthew-kim-941170142/>