

Matthew Kim

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EDUCATION

Johns Hopkins University

B.S. IN COMPUTER SCIENCE

MINOR IN MATHEMATICS

Baltimore, MD | Expected May 2020

COURSEWORK

Quantitative Portfolio Theory and

Performance Analysis

Equity Markets and Quantitative Trading

Elements of Macroeconomics

Elements of Microeconomics

Algorithms

Approximation Algorithms

Blockchains and Cryptocurrencies

Parallel Programming

Data Structures

Object Oriented Software Engineering

Intermediate Programming

Computer System Fundamentals

User Interfaces and Mobile Applications

Discrete Mathematics

Probability & Statistics

Calculus III

LANGUAGES

Java • Python • C • C++ • Javascript •

HTML5 • CSS

TOOLS/APPLICATIONS

Git • Valgrind • JUnit4 • Android Studio •

Xcode • IntelliJ IDEA • L^AT_EX •

TERMINALFOUR • DigitalOcean • Postman •

JIRA • Linux

FRAMEWORKS

Django • Flask • Bootstrap • Agile

DATABASES

Firebase • SQLite • MySQL

LINKS

Personal Website:

<http://matthewkim.me>

Github:

<https://github.com/matthewsmkim1>

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

EXPERIENCE

MEDHACKS | TECH TEAM LEAD

January 2018 – Present | Baltimore, MD

- Leading a team of 8 engineers to streamline the acceptance and reimbursement process, and greatly decrease approval process time
- Reformed the organization's website from being a static website using Google Forms for applications, to a fully functional **dynamic website** with account creation, login/registration, travel reimbursement, team registration, and an application portal
- New website received **tens of thousands** of views since creation, and garnered over **3000 users** in the first 5 months since launch

SIGNAL | PRODUCT MANAGEMENT INTERN

June 2018 – August 2018 | Chicago, IL

- Wrote project specifications/code for a new tool to map **tens of millions** of client user IDs to our vendor IDs before transferring data
- 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
- Created several **JIRA** product boards to assist product managers and developers analyze what stories need to be completed in current and future sprints

UNIVERSITY OF MARYLAND | WEBSITE DEVELOPMENT INTERN

June 2017 – August 2017 | Baltimore, MD

- Redesigned and organized **hundreds of faculty** member biographies in the university's dental school website using the TERMINALFOUR web-management system
- Created new web pages and online content to attract potential University donors

JOHNS HOPKINS UNIVERSITY | COMPUTER SCIENCE RESEARCH ASSISTANT

September 2017 – December 2017 | Baltimore, MD

- Identified and tested code within android mobile applications that cause **disruptive app behavior**, especially pertaining to wake locks
- Wrote analyzation reports of android applications detailing app utilities, source of bugs, and potential triggers

PROJECTS

FOREX TRADING BOT | DEVELOPER

February 2018

- Created an automated trading bot on Oanda to buy/sell currencies in the Foreign Exchange Market using python scripts
- Alpha strategy derived using a combination of technical and fundamental analysis to locate and exploit trends specifically in EUR/USD

HQ-BOT | DEVELOPER

February 2018

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