D.C Metro Region

Potomac, MD

Kyle Liu

Social Entrepreneur & Aspiring Product Manager

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EDUCATION

University of Maryland College Park   B.S. Computer Science   Aug 2016 - May 2020

Programs: University Honors; Hinman CEOs

TECHNICAL SKILLS

Certifications: Oracle Certified Professional, MySQL 5.6 Database Admin   Summer 2016

Languages/Technologies: Java; C; Python; Polymer; Node.js; Matlab; MySQL; ElasticSearch; Git

EMPLOYMENT

Next Century   Software Engineering Intern   Summer 2017

Built modular Polymer UI elements for the Darpa Memex deep-web data visualization and search tool

Added export functionality to decrease search time by 400% and increase search results from 25 to over 10,000

Refactored components into Polymer elements to create a single UI customizable for different domains

Symbiont Health   Co - founder, CTO   Spring 2017 - Present

Designing and developing a wearable fall detecting device and an online analysis platform for caregivers

Conducting customer interviews with professors, patients, and customers to improve end-user experience

Raised over $10,000 in funding from Do Good Challenge and Terp Startup Incubator

Startup Shell   Fellow   Spring 2017 - Present

Leveraging data analysis and visualization tools to help startups market and optimize productivity

Teaching technical skills in weekly lightning tech talks in the student run incubator

Dell Corporation   Software Engineering Trainee   Summer 2015

Optimized C applications on the system level to prevent stack overflow and network security attacks

PERSONAL PROJECTS

Parkinson's Telemonitoring   Python, Java, Firebase   2017

Android app that uses accelerometer and voice data to detect tremor severity and recommend follow-up actions

Capital 2 Go   Python, Java, AWS, Arduino   2017

Android app that uses NLP to convert voice input into a unique QR code to simplify cash withdrawal

Plane Crash WebGL Globe   Python, Java, JavaScript, HTML   2016

Modeled crash locations with high-fatality rates on an interactive 3D globe to identify patterns and hotspots

Fraudlytics   Python, Java, JavaScript, HTML   2016

Web visualization tool used to predict transaction integrity and hotspots for credit card fraud

AWARDS

3rd Prize & Access to Care Winner, MedHacks	2017
1st Prize, UMD Fishbowl Pitch Competition	2017
2nd Prize & Audience Choice, Do Good Challenge	2017
2nd Prize, Intel IOT Health Hack, Bitcamp	2017
Top Performer, Capital One SWE Summit Challenge	2016

RELATED COURSES

Object Oriented Programming	Computer Systems
Data Structures & Algorithms	Discrete Mathematics