D.C Metro Region
Potomac, MD

Kyle Liu

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EDUCATION

University of Maryland College Park   B.S. Computer Science   Expected: May 2020
Programs: University Honors; Hinman CEOs

TECHNICAL SKILLS

Languages/Technologies: Java; C; Python; Ruby; Angular; Polymer; Node.js; Sql; Docker; AWS; ELK; Git

EMPLOYMENT

Capital One   Software Engineering Intern   Summer 2019
• Added Redis caching to the Refer-A-Friend Retail API in Node.Js to reduce customer wait time by up to 1000%
• Designed Cloudformation templates for Lambda and Elasticache on AWS to improve scalability and cut costs

Symbiont Health   Co - founder, CTO   Spring 2017 - Spring 2019
• Designed and developed a Wi-Fi router-based fall detection device and an online analysis platform for caregivers
• Conducted customer interviews with professors, patients, and customers to improve end-user experience
• Raised over $30,000 in seed funding from Do Good Challenge and Pitch Dingman Competition

University of Maryland   Student Facilitator   Fall 2018
• Co-taught a 1-credit CS course next semester on leveraging machine learning to analyze healthcare related datasets
• Created lecture content to cover applications for different fields and code-labs in Python to apply new techniques

Capital One   Software Engineering Intern   Summer 2018
• Built a new case management analytics dashboard in Angular to reduce wait time and save $1000+ per user
• Migrated codebase from AngularJS to Angular to make UI components reusable and easier to maintain
• Designed new Angular visualization components configurable without code for multiple data sources

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

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

1st Prize, Pitch Dingman Competition   2018
1st Prize, Do Good Challenge   2018
3rd Prize & Access to Care Winner, MedHacks   2017