

KYLE LIM

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Education

University of Maryland, College Park August 2016 — May 2020
B.S. in Computer Science, Mathematics Minor, Honors 3.7 GPA

Experience

Northrop Grumman June 2017 — August 2017
Software Engineering Intern Annapolis Junction, MD
· Developed core kernel features for minimal OS in C to increase OS resiliency
· Created randomized disruption tools for system resilience testing
· Implemented parallel compression algorithm, reducing testing time by over 50%

University of Maryland February 2017 — May 2017
Research Assistant College Park, MD
· Designed a web application to simulate the iOS and android application store
· Used JavaScript for the front end, SQL for the database, and Python with Flask for the back end
· Researched the correlation between a smartphone user's personality to their risk taking behaviors

National Cancer Institute June 2015 — June 2016
Computational Research Fellow Ft. Detrick, MD
· Developed cell-specific signature generation tool for classification
· Used computer vision techniques to discover genotoxicity trends with cellular image datasets
· Utilized and trained deep learning algorithms to eliminate human error in classification

Selected Projects

Vynchronize Winter 2017
· Developed, designed, and maintained a real-time video synchronization platform
· Utilized Node.js for the server, Socket.io for the functionality, and Travis CI for scalability

Social Spend Winter 2017
· iOS application that integrates real time augmented reality into a financial social media platform
· Utilized Swift with ARKit for the app, Node/Express for the backend, and Firebase for the database

Optbnb Fall 2017
Winner of Capital One's Software Engineering Summit Challenge
· Developed a web app to visualize Airbnb listings in Node, Chart.JS, Express and web-sockets
· Utilized Pandas to develop data analyses and pricing optimizations

Sudo Productivity Summer 2017
· Developed a Linux based productivity suite (1000+ users, 100+ stars)
· Comprised of Shell, Python, and Ruby scripts to simulate a hollywood-esque effect

Technical Activities

National Cyber League August 2016 — Present
· Utilized Kali Linux, Wireshark, Metasploit, Nmap, JTR to compete in CTFs

Machine Learning at Maryland April 2017 — Present
· Workshops to learn how to utilize machine learning frameworks such as Tensorflow

Capital One Software Engineering Summit January 2018
· Invited to selective engineering summit at Capital One's tech lab to learn iOS/Android/ML/AWS

Skills

Proficient Languages: Python, Java, JavaScript, C, Shell
Familiar Languages: Ruby, C#, Ocaml, SQL
Technologies: UNIX, Git, Docker, Node.js, Pandas, Jupyter, Flask, Unity, TeX