# KYLE LIM

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## Education

**University of Maryland, College Park** <span style="float:right">August 2016 — May 2020</span>
B.S. in Computer Science, Mathematics Minor, Honors <span style="float:right">3.7 GPA</span>

## Experience

**Northrop Grumman** <span style="float:right">June 2017 — August 2017</span>
*Software Engineering Intern* <span style="float:right">*Annapolis Junction, MD*</span>
· 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** <span style="float:right">February 2017 — May 2017</span>
*Research Assistant* <span style="float:right">*College Park, MD*</span>
· 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** <span style="float:right">June 2015 — June 2016</span>
*Computational Research Fellow* <span style="float:right">*Ft. Detrick, MD*</span>
· 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** <span style="float:right">Winter 2017</span>
· Developed, designed, and maintained an real-time video synchronization platform
· Utilized Node.js for the server, Socket.io for the functionality, and Travis CI for scalability

**Social Spend** <span style="float:right">Winter 2017</span>
· 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** <span style="float:right">Fall 2017</span>
*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** <span style="float:right">Summer 2017</span>
· 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** <span style="float:right">August 2016 — Present</span>
· Utilized Kali Linux, Wireshark, Metasploit, Nmap, JTR to compete in CTFs

**Machine Learning at Maryland** <span style="float:right">April 2017 — Present</span>
· Workshops to learn how to utilize machine learning frameworks such as Tensorflow

**Capital One Software Engineering Summit** <span style="float:right">January 2018</span>
· Invited to selective engineering summit at Capital One's tech lab to learn iOS/Android/ML/AWS

## Skills

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