

# Allen Cheng

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<b>EDUCATION</b>	<b>University of Maryland, College Park</b> , College Park, MD <i>Bachelor of Science, Computer Science and Mathematics</i> <i>Minor, Business Analytics</i> Honors College - University Honors, President's Scholarship	May 2019 GPA: 3.83/4.00
<b>WORK EXPERIENCE</b>	<b>Facebook, Inc.</b> <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>• Building Nuclide, an open-source developer environment plugin built on top of the Atom text editor.</li><li>• Implementing high-volume data-centric software solutions by building report interfaces and data feeds.</li><li>• Creating web applications and interfaces primarily using Java and JavaScript.</li></ul> <b>AeroFS</b> <i>Software Engineering Intern</i> <i>Y Combinator, Andreessen Horowitz backed startup building an enterprise file sync and share solution.</i> <ul style="list-style-type: none"><li>• Implemented scalable backend services for Amium, a collaborative document-based chat platform that transforms files into real-time activity feeds and conversations. Programming in Go and Java.</li><li>• Led the design of the scalable architecture of the data collection and transformation ETL pipeline for a Ruby on Rails application, including investigating cost-effective solutions and building detailed analysis reports.</li><li>• Facilitated the analytics collection pipeline and using Elasticsearch to analyze data trends in user behavior using business intelligence to make informed marketing and product decisions.</li></ul> <b>Asymmetrik, Ltd.</b> <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>• Developed the web app component of <i>WildFire</i>, a platform for streaming realtime Twitter analytics using effective MongoDB, AngularJS, and Node.js.</li><li>• Piloted an ad hoc data analytics system with the Apache Zeppelin notebook structure, utilizing Spark and Elasticsearch. Generated interactive data visualizations with Scala, R, Python, and SparkSQL.</li><li>• Initiated collaboration with the <i>WildFire</i> team leads to provide data-informed feedback on new features using statistical reports generated with ggplot2, matplotlib, and Google Charts.</li><li>• Configured multi-node Amazon EC2 clusters on AWS with Red Hat Ansible. Managed configuration settings for machine provisioning and software deployment of <i>WildFire</i>.</li><li>• Participated in the software development life cycle with the Scrum methodology.</li></ul> <b>The Johns Hopkins University Applied Physics Laboratory</b> <i>Large Scale Analytics / Software Engineering Intern</i> <ul style="list-style-type: none"><li>• Developed a command line interface in Java for <i>Socrates</i>, a system for scalable graph data analytics with parallel processing. Significantly improved developer productivity and its user-friendliness.</li><li>• Created a technique for internal analysis of the effectiveness of employee-to-employee interaction within the same department versus within different departments. Currently used by department supervisors.</li><li>• Performed data scrubbing and cleanup on a database with over four million records.</li></ul>	Sep 2017 - Present Seattle, WA May 2017 - Aug 2017 Palo Alto, CA May 2016 - Jan 2017 Annapolis Junction, MD Sep 2014 - Aug 2015 Laurel, MD
<b>RELEVANT EXPERIENCE</b>	<b>Undergraduate Teaching Assistant in Computer Science, University of Maryland</b> <ul style="list-style-type: none"><li>• Led recitation classes to discuss and reinforce lecture material for CMSC216 - Introduction to Computer Systems.</li><li>• Prepared instructional materials while proof-implementing class projects and proofreading quizzes and exams.</li><li>• Obtained a course evaluation rating of 3.92/4.00 from students for "overall effective teacher," compared to the department average of 3.20/4.00.</li></ul> <b>CS-RSVP - HTML, CSS, JavaScript</b> github.com/timothychen01/cs-rsvp <ul style="list-style-type: none"><li>• Event calendar registration system for official use with the Univ. of Maryland CS department for broadcasting and handling undergraduate campus events. Work in progress.</li><li>• Constructed with MongoDB and Node.js for backend services and Bootstrap for frontend.</li><li>• Continuation of 2<sup>nd</sup> place winning project from the 2015 Daemon Dash hackathon.</li></ul> <b>PersoniFiler - Java</b> goo.gl/7rf7uJ <ul style="list-style-type: none"><li>• Research project to determine collaborative behaviors of company employees by analyzing the metadata of shared filesystems and computing quantitative interactions.</li><li>• Calculated vectors for each staff member and used the k-means algorithm to cluster into effective groups.</li><li>• Compared clustered groups with the employees' ground truth groups with the rand index evaluation metric.</li></ul>	Jan 2017 - May 2017
<b>SKILLS</b>	<b>Languages</b> <i>Professional:</i> Java, JavaScript <i>Proficient:</i> Python, C <i>Basic:</i> Scala, C#, Ruby, OCaml, R, SQL	<b>Tools and Technologies</b> AngularJS, Apache Spark, Django, Eclipse, Elasticsearch, Git, IntelliJ IDEA, JIRA, MongoDB, Node.js, Pandas