

Allen Cheng

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EDUCATION	University of Maryland, College Park , College Park, MD <i>Bachelor of Science, Computer Science and Mathematics</i> Honors College – University Honors, President’s Scholarship	May 2019 GPA: 3.83/4.00
WORK EXPERIENCE	Facebook, Inc. <i>Software Engineering Intern</i> <ul style="list-style-type: none">Will be implementing high-volume data-centric software solutions by building report interfaces and data feeds.Will be creating web applications and interfaces primarily using C++ and Java. AeroFS <i>Software Engineering Intern</i> <i>Venture-capital backed startup building an enterprise file sync and share solution.</i> <ul style="list-style-type: none">Implementing 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.Facilitating the analytics collection pipeline. Using Elasticsearch to analyze data trends in user behavior using business intelligence to make informed marketing and product decisions. Asymmetrik, Ltd. <i>Software Engineering Intern</i> <ul style="list-style-type: none">Developed the web app component of <i>WildFire</i>, a platform for streaming realtime Twitter analytics using effective MongoDB, AngularJS, and Node.js.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.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.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>.Participated in the software development life cycle with the Scrum methodology. The Johns Hopkins University Applied Physics Laboratory <i>Large Scale Analytics / Software Engineering Intern</i> <ul style="list-style-type: none">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.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.Performed data scrubbing and cleanup on a database with over four million records.Wrote JUnit tests for <i>Socrates</i> algorithms and analytics operations.	exp. Sep 2017 – Dec 2017 Seattle, WA May 2017 – Aug 2017 Palo Alto, CA May 2016 – Jan 2017 Annapolis Junction, MD Sep 2014 – Aug 2015 Laurel, MD
RELEVANT EXPERIENCE	Undergraduate Teaching Assistant in Computer Science, University of Maryland <ul style="list-style-type: none">Led recitation classes to discuss and reinforce lecture material for CMSC216 – Introduction to Computer Systems.Prepared instructional materials while proof-implementing class projects and proofreading quizzes and exams.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. CS-RSVP – HTML, CSS, JavaScript <i>github.com/timothychen01/cs-rsvp</i> <ul style="list-style-type: none">Event calendar registration system for official use with the Univ. of Maryland CS department for broadcasting and handling undergraduate campus events. Work in progress.Constructed with MongoDB and Node.js for backend services and Bootstrap for frontend.Continuation of 2nd place winning project from the 2015 Daemon Dash hackathon. PersoniFiler – Java <i>goo.gl/7rf7uJ</i> <ul style="list-style-type: none">Research project to determine collaborative behaviors of company employees by analyzing the metadata of shared filesystems and computing quantitative interactions.Calculated vectors for each staff member and used the k-means algorithm to cluster into effective groups.Compared clustered groups with the employees’ ground truth groups with the rand index evaluation metric.	Jan 2017 – May 2017
SKILLS	Languages <i>Professional:</i> Java, JavaScript <i>Proficient:</i> Python, C <i>Basic:</i> Scala, C#, Ruby, OCaml, R, SQL Tools and Technologies AngularJS, Elasticsearch, Apache Spark, Git, Eclipse, IntelliJ IDEA, JIRA	