Allen Cheng

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EDUCATION

University of Maryland, College Park — *College Park, MD* — *Dec 2019*
Bachelor of Science, Computer Science and Mathematics. Minor, Business Analytics. — GPA: 3.80/4.00
Honors College – University Honors, President's Scholarship

WORK EXPERIENCE

Lyft, Inc.
Software Engineer Intern — *San Francisco, CA* — *Sep 2018 – Dec 2018*
- Building data ingestion, processing, and retrieval applications.
- Integrating computer vision and other data analysis tools into a data pipeline.

Facebook, Inc.
Software Engineer Intern, Instagram — *New York, NY* — *Jun 2018 – Aug 2018*
Software Engineer Intern — *Seattle, WA* — *Sep 2017 – Dec 2017*
- Migrating A/B experimentation platform to use a more robust configuration distribution and storage solution.
- Integrated internal infrastructure tooling within Nuclide, an open-source developer environment for web and native mobile development built on top of the Atom text editor, used by 87% of all Facebook developers.
- Initiated CPU profiling and trace collection from Nuclide's users to analyze Nuclide's performance data in production. Built reports and data feeds to drive optimizations for a sleeker UX using pipelines with Python.
- Created and designed Nuclide user interfaces and experiences using React and Node.js.

AeroFS
Software Engineering Intern — *Palo Alto, CA* — *May 2017 – Aug 2017*
Y Combinator, Andreessen Horowitz backed startup building an enterprise file sync and share solution.
- 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.
- 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.
- 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.

University of Maryland – College Park
Student-Taught Course Facilitator — *College Park, MD* — *Jan 2018 – May 2018*
Undergraduate Teaching Assistant — *College Park, MD* — *Jan 2017 – May 2018*
- Designed and taught CMSC389K – Introduction to Web Development w/ Node.js under a faculty advisor.
- Synthesized a course curriculum and independently planned all lecture material and assignments.
- 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 quizzses 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.

Asymmetrik, Ltd.
Software Engineering Intern — *Annapolis Junction, MD* — *May 2016 – Jan 2017*
- Developed the web app component of *WildFire*, 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 *WildFire* 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 *WildFire*.
- Participated in the software development life cycle with the Scrum methodology.

The Johns Hopkins University Applied Physics Laboratory
Software Engineering Intern — *Laurel, MD* — *Jun 2015 – Aug 2015*
Large Scale Analytics Intern — *Laurel, MD* — *Sep 2014 – May 2015*
- Developed a command line interface in Java for *Socrates*, 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.

SKILLS

Languages
Professional: Java, JavaScript, Python
Proficient: C, PHP, Ruby
Basic: C#, OCaml, R, Scala, SQL

Tools and Technologies
AngularJS, Apache Spark, Django, Eclipse, Elasticsearch, Git, IntelliJ IDEA, JIRA, Mercurial, MongoDB, Node.js, Pandas