

# Charlie Ching

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## **EDUCATION:**

### **University of Maryland, College Park**

*GPA: 3.69/4.0, Expected Graduation: May 2019*

- Bachelor's in Computer Science
  - Upper Level Coursework: Machine Learning, Algorithms, Data Structures, Data Science, Cloud Computing with AWS, Computer and Network Security
- Minor in Technology Entrepreneurship
- Environment, Technology, and Economy Scholars Program:
  - Highly selective 2-year living and learning program that explores the concept of global sustainability
- Academic Awards:
  - Dean's List, Academic Honors, Office of Multi-ethnic Student Academy of Academic Excellence Award

## **TECHNICAL EXPERIENCE:**

- Languages: Java, SQL, Python, HTML/CSS, SASS/SCSS, JavaScript, Ruby, C, OCaml, NuclearJS, Prolog, Assembly, MATLAB
- Frameworks/Libraries: React, Node, Bootstrap, jQuery, Maven
- Skills/Technologies: Web Development, UI/UX, Amazon Web Services, Git/Github, RESTful API, Apache Tomcat, Wireshark

## **WORK EXPERIENCE:**

### **JPMorgan Chase & Co. - Columbus, Ohio**

*June 2018 - Present*

#### *Software Engineering Intern*

- Developing an application that runs voice commands through Amazon Alexa Voice Services to utilize and obtain the results of services such as the Chase online web application, mobile application, and internal tests by using machine learning to select the most important results and technologies including Spring Boot, Cassandra, Selenium, Java, and Cucumber

### **University of Maryland, College Park - Department of Computer Science**

*February 2018 - May 2018*

#### *Undergraduate Teaching Assistant for Object Oriented Programming*

- Taught a biweekly discussion section composed of 34 students, created lesson plans and material for discussion sections, graded examinations and projects, held office hours to assist students with course material, monitored and answered student questions on an online discussion board

### **Crowdkeep - Washington D.C. (Startup)**

*June 2017 - September 2017*

#### *Software Engineering Intern*

- Enhanced and implemented new features for the React based web application through UI/UX improvements, cross browser compatibility, code refactoring, quality assurance testing, bug fixes, website traffic analysis, and deep linking between web and mobile applications
- Optimized the Jekyll based marketing website through HTML validation, CSS compression, image compression, gulp minification, and leveraging browser caching

### **BAE Systems - Washington D.C. (Sector partnered with the U.S. Navy)**

*May 2016 - August 2016*

#### *Software Programming Intern*

- Used SQL queries, the Hibernate framework, and the Struts 2 framework to pull crucial information from the Navy database to manipulate and display information on a web-based application run on an Apache Tomcat server
- Created an application consisting of JSP, HTML, CSS, and Java that could be placed into any dynamic web project, displaying every component as a downloadable link

## **HACKATHONS:**

- Coding Mentor for Technica, the University of Maryland's all women hackathon
- Technology coordinator for Bitcamp, the largest hackathon of the East Coast in the spring

## **PROJECTS:**

### **Stock Analyzer**

*May 2018*

- A program written in R that analyzes NASDAQ stock data through data curation, parsing, and management, exploratory data analysis, and machine learning to determine the best time to buy and sell a specific stock, what the stock price will be in the future, what predictors affect the stock, and ultimately how to maximize profit

### **Food Tracker**

*December 2017*

- A web application built with DynamoDB, CloudTrail, S3, and the USDA Food Composition Database API
- Records nutritional values of food eaten throughout the day and recommends food to help the user maintain a healthy and well-balanced diet

### **Home Foods**

*October 2017*

- A web application built using HTML, SASS, JavaScript, and Node.js that uses the McCormick API to generate a list of recipes for users to request and customize meals to be delivered by chefs within a specified proximity