Charlie Ching

EDUCATION:

University of Maryland, College Park   *GPA: 3.72/4.0, Graduation: May 2019*
- B.S. in Computer Science
  - Upper Level Coursework: Machine Learning, Algorithms, Data Structures, Data Science, Cloud Computing with AWS, Computer Systems Architecture, Human Computer Interactions, 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

TECHNICAL EXPERIENCE:
- Languages: Java, SQL, Python, R, HTML/CSS, SASS/SCSS, JavaScript, Ruby, C, OCaml, Prolog, 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 - August 2018*
Software Engineering Intern
- Developed 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 technologies including Spring Boot, Swagger, Cassandra, OrientDB, Selenium, Maven, and Cucumber

Crowdkeep (Startup) - Washington, D.C.   *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, quality assurance testing, bug fixes, website traffic analysis, and deep linking between web and mobile applications, HTML validation, CSS compression, image compression, and gulp minification

BAE Systems (Sector partnered with the U.S. Navy) - Washington, D.C.   *May 2016 - August 2016*
Software Programming Intern
- Created web pages hosted on an Apache Tomcat server consisting of information from the Navy database by using SQL, the Hibernate framework, and the Struts 2 framework
- 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

LEADERSHIP AND TEACHING EXPERIENCE:

University of Maryland, College Park   *August 2018 - December 2018*
Instructor for a Student Initiated Course: Front-End Web Design and Development
- Co-create all course content and co-teach students how to create responsive websites using modern web-technologies

University of Maryland, College Park   *February 2018 - May 2019*
Undergraduate Teaching Assistant for Object Oriented Programming
- Taught a biweekly discussion section, created lesson plans and material, graded examinations and projects, held office hours, and monitored and answered student questions on an online discussion board

HACKATHONS:
- Technology coordinator for Bitcamp, the largest hackathon of the East Coast in the spring   *April 2018*
- Coding Mentor for Technica, the University of Maryland's all women hackathon   *November 2017*

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, 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 that records nutritional values of food eaten throughout the day and recommends food to help the user maintain a 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