Allison H. Ryu

214 Hawkes Ct, Hockessin, DE 19707 | (302)507-5286 | allison.ryu@gmail.com | linkedin.com/in/allison-h-ryu

EDUCATION
UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA
May 2020
- Computer Science, Bachelor of Arts   Cumulative GPA: 3.75/4.0

SKILLS
- Languages: Java, Python, C++, SQL, PHP, JavaScript, HTML, CSS, AngularJS, Bootstrap, Assembly
- Technologies: Amazon Web Services (CloudTrail, CloudWatch, DynamoDB, Lambda, Snowflake), Git, Flask, Shell scripts, Unix/Linux, RESTful API (Flask/Python)

EXPERIENCE
AMAZON, SEATTLE, WA — *Software Development Engineer*
Sept 2020 -

CAPITAL ONE, WILMINGTON, DE — *Software Engineer Intern*
June 2019 - Aug 2019
- Streamlined AWS Snowflake query submission with AngularJS webpage application to identify AWS event creation
- Parsed through 1000 TB of data logs per query and returned query results to engineers during AWS cloud compliance troubleshooting
- Utilized AWS DynamoDB to store query submission history and displayed table on webpage for easy status check of queries and reduced wait time for query results
- Implemented Lambda function and RESTful APIs using Flask to dynamically update DynamoDB table with appropriate query status and results from AWS Snowflake

UVA COMPUTATIONAL BIOLOGY LAB, CHARLOTTESVILLE, VA — *Research Assistant*
Sept 2018 - Jan 2019
- Analyzed genomic data sets with Python scripts in a Unix environment that indicated peak concentrations of cancer cells among the genome
- Compared the usability of analytical Python programs and note any errors users may experience
- Processed RNA-seq data from raw sequencing machine output to an expression index and detect differentially expressed genes

UVA COMPUTER SCIENCE DEPARTMENT, CHARLOTTESVILLE, VA — *Teaching Assistant*
Aug 2019 - Present
- Expanded students' knowledge of computer science fundamentals, and their approach to logic problems through basic discrete mathematics, proofs, and Lean
- Enhanced students' problem-solving skills and assignment completion rate during office hours

PERSONAL PROJECTS
ELLIPSIS – *HTML, PHP, SQL*
Jan 2020 - May 2020
- Created a story-writing application in which users can collectively create stories together, as well as interact with other users' stories and profiles

STUDENT SPRINGBOARD – *HTML, CSS, ANGULAR, PHP, SQL*
Jan 2020 – May 2020
- Generated a page where students can conveniently track their assignments and most-visited sites at one location

VOLUNTEER CONNECT (CAPITAL ONE CARBON HACKATHON) – *Python, HTML, Bootstrap*
June 2019
- Developed an application that connects community members in need of assistance with volunteers, through which both parties can also rate the service provider and opportunity