Yuhwan Lee

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EDUCATION

University of Maryland: College Park   College Park, MD
BSc in Computer Science and Statistics, GPA: 4.0/4.0   *Aug. 2021 – May 2024 (Expected)*
- Relevant Coursework: Data Structures, Algorithms, Compilers, Computer Systems (C/Unix/Assembly), Discrete Mathematics, Programming Languages, Linear Algebra, Calculus I/II/III, Probability Theory

TECHNICAL SKILLS

Proficient: Python, Java, Flask, DynamoDB, React, HTML/CSS/JS, C, Git
Experience with: EC2, S3, Elasticsearch, Maven, OCaml, Bootstrap, Jira, Agile, Microservices

EXPERIENCE

Yext   New York, NY
Incoming Software Engineering Intern   *May 2023 – Aug. 2023 (Expected)*
- Incoming Summer 2023 Software Engineering Intern for Yext.

Capital One   College Park, MD
Software Engineering Intern   *Sept. 2022 – May 2023 (Expected)*
- Made improvements and new features for Izby, and **enterprise Slack bot** that promotes the use of inclusive language, actively utilized by over 3000+ Capital One associates.
- Designed an API using the **OpenAPI** specification, and used **Flask** to prototype a working version of the API.
- Prototyped and implemented a new internal data model to allow for flexibility in future functionality expansions.
- Enhanced data storage capabilities by routing incoming event data to a **NoSQL** database (**DynamoDB**), designing the table according to **single table design** principles.

Leidos   Gaithersburg, MD
Software Engineering Intern   *May 2022 – Aug. 2022*
- Assisted in the effort to refactor the UI from AngularJS to **React** by implementing new features and fixing bugs.
- Developed scripts to **transform a large (over 300GB) dataset** for a data migration effort to Elasticsearch.
- Refactored **Java microservices** to read from and write to **Elasticsearch** instead of a SOLR database.
- Removed outdated and unsecure instances of slf4j from a Maven project to remediate log4j vulnerabilities.

PROJECTS

Tutoring Request Manager | *Python, Webhooks, Amazon S3, Discord API*
- Proposed and developed a Discord bot to manage incoming tutoring requests for Centennial High School's National Math Honor Society (NMHS), allowing NMHS members to respond to and accept tutoring requests.
- Implemented webhooks with Google Forms to receive data in real time, storing request data by utilizing **AWS S3**.
- **Utilized by over 50 student/tutors** throughout the pandemic, allowing for a smooth continuation of tutoring.

Social Media Posting Bot | *Amazon EC2, Facebook Graph API, Twitter API, Reddit API, Python*
- Created a program to take the top trending posts from Reddit and post them onto various social media platforms.
- Integrated the Reddit API to download images and videos, and used Facebook's and Twitter's APIs to post the downloaded content.
- Deployed an Amazon **AWS EC2** instance to host and continuously run the program at regular intervals.
- Produced a successful Twitter account with **over 700 followers and 1 million impressions**

EXTRA-CURRICULAR ACTIVITIES

FTC Robotics - Lead Programmer | *Java, OpenCV, TensorFlow*   *Sept. 2018 - May 2021*
- Organized the code base with strong adherence to object oriented design principles to improve code readability.
- Designated roles and tasks to members of the programming team, reducing conflict and streamlining development.
- Qualified for **state level competitions** by achieving **11 team awards** (Inspire Award, Connect Award).