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GRACE JIA

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EDUCATION

Cornell University, Ithaca NY   **Expected May 2022**

Bachelor of Arts in Computer Science. *Cumulative GPA: 4.0*
- Dean's List of the College of Arts & Sciences, Fall 2018 & 2019
- Relevant Courses: Software Engineering • Functional Programming (with OCaml) • Computer System Organization and Programming (with C) • Introduction to Analysis of Algorithms • Object-Oriented Programming and Data Structures (with Java) • Introduction to Machine Learning (with Python)

WORK EXPERIENCE

Klaviyo   **June – August 2020**

Software Engineer Intern – Reporting, Segmentation and Profiles Team
- Restructured the asynchronous task system for exporting profile groups to CSVs to handle greater customer size and demand, with full integration into UI.
- Managed cutover of export tasks from current database (which has accumulated over 12 TB of data) to new database, allowing for data models tailored to exports and easier cleanup.
- Reduced overhead in task queues by adding periodic checks for tasks that are ready to be processed.

Cornell Computing and Information Science   **August 2019 – May 2020**

Teaching Assistant – CS 2800 Discrete Structures
- Led section reviews of theoretical topics such as cryptography, automata and combinatorial proofs.
- Graded student work; explained proof techniques and concepts during office hours.

Hong Kong Applied Science and Technology Research Institute (ASTRI)   **June – August 2019**

Software Engineer Intern – Cybersecurity, Cryptography and Trusted Technologies Division
- Evaluated and presented about deep learning methods and their effectiveness in fake news detection, including LSTM, BERT and transformer architectures.
- Researched natural language processing and fake news generation by neural networks, interacting with models implemented in TensorFlow, Keras and PyTorch.

PROJECT EXPERIENCE

Cornell University Unmanned Air Systems (CUAir)   **October 2019 – Present**

Intelligent Systems Subteam
- Collaborated in a team of 3 to revamp the stack for our custom aircraft's automatic target detection system, using React and Flask; added MySQL database to preserve data in event of errors.

Legal Information Institute, Cornell Law School   **January – May 2020**

Save the Constitution Again Project
- Delivered scripts to help improve internal search results for the Constitution Annotated website by serializing the relationships between each page and the Supreme Court references that it contains.

SKILLS

- Technology: Python, Java, OCaml, HTML, CSS, Git (proficient)
            C, JavaScript, React, MySQL, Flask, Django, Celery, RabbitMQ, Docker (familiar)
- Design: Krita, Adobe Photoshop, Illustrator, Animate
- Languages other than English: Chinese (fluent)