Ivan Mo

Atlanta, GA 30328 • imoiwm@gmail.com • (940) 390-3916

ivanmo.io • linkedin.com/in/ivan-mo • github.com/imoiwm

EDUCATION

The University of Georgia, Honors Program, Athens, GA **Graduated Dec 2023**
Bachelor of Science, Computer Science & Bachelor of Arts, Linguistics **Cumulative GPA: 3.94/4.00**

EXPERIENCE

Capital One Software Engineer Associate **February 2024 –**
Capital One Technology Internship Program Participant **June - Aug 2023**
- Developed internal tool displaying marketing campaign error statuses pulled from DocumentDB datastore, safeguarding hundreds of millions in potential financial loss.
- Implemented full tech stack including AWS Lambda in Python and React with Node + Next.js framework.
- Utilized agile methodology and presented the product to senior business stakeholders and fellow interns.

Amazon Software Development Engineer Intern **Aug - Nov 2022**
- Developed Redis caching upgrade in Java to payments history service handling around 400 clients with 12k transactions per second, reducing operational load and latency and providing performance metrics.
- Automated infrastructure pipeline creation using AWS CDK and TypeScript, improving security compliance through encryption and upgrading dependency packages.
- Conducted high-level internal design review with engineering team and stakeholders to discuss deep dives on pain points and potential solutions.

UnCoRe NSF REU 2021 Participant (Oakland University site) **May - July 2021**
- Created a risk assessment framework analyzing 20+ threats for connected and autonomous vehicles.
- Established a metric system for our model backed by complex number probabilities and developed a full-stack web application using Django and MongoDB to showcase the results.

Peer Tutor **December 2022 - Fall 2023**
- Offered online and in-person appointments with the Division of Academic Enhancement and athletic tutoring department across 19 courses in math, computer science, linguistics, and foreign language.
- Conducted discussions and walkthroughs of course content and advising on long-term strategies for assessment preparation and studying outside of tutoring sessions.

Quinn Research Group at the University of Georgia **Jan 2020 - Fall 2023**
- Implemented temporal word embeddings and researched NLP literature to perform sentiment analysis on 150k+ files containing 7 million+ Tweets.
- Incorporated longitudinal aspects of time-bucketed data into a model for predicting HIV outbreaks and activity. Presented our work at the SciPy 2022 conference and published in the conference proceedings.

CAMPUS ACTIVITIES

UGAHacks Organizer + Advisor **Jan 2022 - Present**
- Organized UGA's yearly hackathon in 2022 and 2023 on the logistics team and advising for 2024. Planned side-events, merchandise distribution, and scheduling with teammates and other coordinating teams.
- Collaborated with the UGA eSports Club on the eSports tournament side-event, offering $100+ in prizes to 80+ attendees for tournaments in the games Super Smash Bros. Ultimate and Guilty Gear -Strive-.

RELEVANT COURSEWORK

Natural Language Processing (LING 4570) **Grade Received: A (Spring 2023)**
Computer Architecture and Organization (CSCI 4720) **Grade Received: A (Spring 2023)**
Data Structures (CSCI 2720) **Grade Received: A (Fall 2021)**
Applied Linear Algebra (MATH 3300) **Grade Received: A (Spring 2021)**

HONORS AND AWARDS

University of Georgia Dean's List **Summer 2020, Fall 2023**
University of Georgia Presidential Scholar **Fall 2020 & 2021, Spring 2021 & 2022 & 2023**
SciPy 2022 Conference Proceedings Publication **July 2022**
Phi Beta Kappa Member **April 2022**
The Hollingsworth Award from UGA Mathematics Department (2020) **Spring 2021**
UGA Center for Undergraduate Research Opportunities (CURO) Research Assistantship **Summer 2020**