Kelly Gu

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EDUCATION
University of Virginia, Charlottesville, VA   Aug 2021 – Present
Undergraduate Honors Student, Computer Science; Minors: Data Science and General Business
Coursework:
- Discrete Mathematics 1 and 2; Data Structures and Algorithms 1 and 2; Computer System Organizations; Software Development Essentials; Communicating with Data; Digital Skills for the Workplace

WORK EXPERIENCE
Research Assistant, University of Virginia   Aug 2023 – Present
- Collaborate with Professor Afsaneh Doryab and team on innovative research projects at the intersection of mental health and computer science.
- Focuses on leveraging data analysis and machine learning techniques to develop tools for the early detection and assessment of individuals' mental well-being.

SWE and Data Intern, Freddie Mac   May 2023 – Aug 2023
Worked within the Investments and Capital Markets Division's Financial Engineering team – implements
financial models and analytics in production environments to support trading and risk management functions
- Independently created a robust API gateway using the Spring Cloud framework to manage client requests and securely route them to respective APIs, supporting both HTTP and HTTPS communication.
- Implement an event-driven email service using the Spring Boot framework, enabling seamless delivery notifications to business users via SMTP – supports various email types, from simple plain text to comprehensive reports with links and attachments.

CS 2100 Teacher's Assistant, University of Virginia   Aug 2022 – May 2023
- Course: Data Structures and Algorithms 1
- Hold two hours of office hours each week to help students further grasp the material
- Guide students' thinking processes when they encounter difficulties

PERSONAL PROJECTS
Portfolio Website, In Progress   Aug 2023
- Build a responsive portfolio website with advanced animations, using React, JS, and CSS
- Showcases personal interests, as well as personal projects completed outside of schoolwork
- Web Portfolio link: https://kkellygu.github.io/personal-portfolio/

Google Data Analytics Professional Certificate, Online Coursera Course   Aug 2022
- Hands-on experience with data cleaning, data visualization, project management, and interpreting and communicating data analytics findings
- Gain confidence in transforming complex data into actionable and clear insights
- Develop fluency in computer programming languages and a solid understanding of databases

SKILLS
Programming Java • JavaScript • SQL • Python
- Knowledge of core CS concepts: Data structures and algorithms, object-oriented analysis and design, design patterns, and the software development life cycle

Miscellaneous
- Excellent analytical and problem-solving skills
- Effective written and verbal communication
- Strong organizational and time management skills
- Adaptive, excited to learn, patient, and detail oriented
- Thrives in both collaborative and independent work environments
- Able to inspire and lead groups of people towards a common goal

ACTIVITIES
Chinese Student Association President, University of Virginia   Mar 2023 – Present
- Provide comprehensive oversight and strategic management, both internally and externally, by leveraging insights from experienced upperclassmen, and general member feedback data, to drive organizational excellence and sustainable growth
- Quickly adapts to unexpected situations, and delivers prompt and efficient solutions to conflicts
- Organize new events tailored to enhance the upperclassmen/returning members experience, while maintaining the high quality of our new member experience
- Former Culture Chair from April 2022 to March 2023

alpha Kappa Delta Phi, Sigma Chapter   May 2022 – Present
Breast Cancer Awareness Chair: Fall 2022
- Plan, organize, and execute two events, and various fundraisers to raise over $3,400 as a Chapter for breast cancer research
- Also held: Rush Chair, Reveals Coordinator Chair, and Historian Chair