COURTNEY NGUYEN

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EDUCATION

University of Virginia (UVA), *Charlottesville, VA*   *May 2024*
B.A. Computer Science & Statistics | Minor in Data Science
- **GPA:** 3.752 | **Dean's List**
- **Relevant Coursework:** Machine Learning, Cybersecurity, Data Structures and Algorithms, Program & Data Representation, Advanced Software Development, Time Series, Data Analysis with Python, Data Science with R, Computer Architecture

PROFESSIONAL EXPERIENCE

Software Developer Intern | Freddie Mac, *Mclean, VA*   *May 2023 – Present*
- Demonstrated technical proficiency and passion for software development during a highly competitive internship with Freddie Mac's UWRA (Underwriting and Risk Analysis) team
- Engaged in Agile development process, picking up user stories and collaborating alongside senior developers to deliver high-quality software solutions within the Single Family division
- Leveraged **Java** and **Spring Boot** to work on micro-services that facilitated loan approval process at Freddie Mac

Software Engineering Intern | Rain Technologies Inc, *Nashville, TN*   *Jun 2022 – Aug 2022*
- Contributed to Rain's anti-fraud efforts through development of a full stack application, "Rules Lifecycle Manager" which simplified loan-related rule updates and enhanced user experience
- Built a RESTful application from scratch using **Golang**, **React**, and **AWS DynamoDB**, showcasing proficiency in **API development** and software engineering best practices
- Presented "Rules Lifecycle Manager" project during a company-wide meeting, communicating its objectives, implementation, and outcomes to stakeholders at various levels within the organization

RESEARCH & ACADEMIC EXPERIENCE

Undergraduate Research Assistant | Grainger Lab | UVA, *Charlottesville, VA*   *Aug 2022 – Present*
- Conducted bioinformatics analysis of *Xenopus Leavis* and *Xenopus tropicalis*, utilizing **Seurat** in **R** to generate UMAPs, heat-maps, and perform gene set enrichment analysis on RNA sequencing data
- Performed research on embryonic eye formation and development of vision in Xenopus model species, focusing on differentiation of retina, lens, and brain cells
- Utilized bioinformatics and data analysis skills to identify key findings, create impactful graphics for scientific publications, and communicated research progress and outcomes to Professor in a non-technical manner

Teaching Assistant (CS 2100: Data Systems & Algorithms 1) | UVA, *Charlottesville, VA*   *Aug 2022 – Present*
- Guided students in object-oriented programming, Java, concurrency, data structures and algorithms, and facilitated learning through leading labs, office hours, and review sessions
- Assisted with administrative tasks, including grading, updating grades, and providing constructive feedback, while demonstrating strong communication and teaching skills

INVOLVEMENT

KPMG Women in Advisory Conference   *Aug 2023*
- Selected as a participant for this exclusive event, created to empower and advance women professions in the advisory industry, fostering networking, mentorship, and career development opportunities

Freddie Mac Business Case Competition   *Jun 2023*
- Developed and presented a proposal for Freddie Mac's Gen Z Benefit program, integrating a Flexible Credit assessment and a Graduated Interest Rate Program, highlighting how this program enables Gen Z individuals to transition from renting to homeownership at an accelerated pace

Women in Computer Science (WICS) EcoHacks   *Apr 2023*
- Collaborated with a team to design and develop an environmentally sustainable technology solution - a gamified app, that won the category for "Best Social Good" by encouraging users to report areas of environmental harm and generated a heat map to pinpoint areas of the most critical environmental issues

TECHNICAL SKILLS
- Java, Python, C++, Django, R, Pandas, NumPy, Seurat, Git, React, PostgreSQL, AWS DynamoDB, Spring Boot, API Development, Machine Learning, Agile Development Methodology, Cybersecurity, Data Analysis, Data Visualization