Kathryn Chadwick

zur5ms@virginia.edu | (434) 906-2761 | linkedin.com/in/kathrynec/

WORK EXPERIENCE

Vanguard — **Charlotte, North Carolina**
TLP Senior Associate — *August 2024 – Present*
- Redesigned a Daily Portfolio Management (DPM) tool for 30+ stakeholders to handle 800,000+ client transactions, making it fully dynamic, scalable, and accessible.
- Led accessibility initiatives via Cypress (JavaScript/TypeScript) and NVDA, automating tests and boosting compliance from ~60% to 100%.
- Developed a real-time dashboard with AWS Lambda and DynamoDB to log DPM errors and auto-link Jira tickets, reducing resolution times for client portfolio issues by 35%.

EduAvenues LLC — **Fairfax, Virginia**
Associate Software Engineer — *December 2022 – Present*
- Built a Python/Flask platform using Firebase/Firestore and flake8 for code integrity, integrating OpenAI's API to deliver line-by-line feedback on over 26,000 essays, cutting manual review by 65%.
- Implemented a data pipeline (Python, NumPy, Pandas) to process exam results for 1,000+ students, compute five-number summaries, and send personalized updates via Google APIs—reducing manual reporting time by 88%.
- Launched a browser-based solution for 200+ concurrent test-takers, featuring proctor dashboards, real-time timers, and Google Sheets integration, trimming instructor overhead by 50% while maintaining exam authenticity.

Workiva (NYSE: WK) — **Ames, Iowa**
Software Engineer Intern — *May 2023 – May 2024*
- Contributed to a flagship platform used by 80%+ of Fortune 500 companies, migrating UI components from a legacy Webskin system to MUI with Dart, React, and Redux to improve load times.
- Devised advanced bookmarking, specialized search, and filtering features, enabling 30+ engineers to track package dependencies across multiple environments and accelerating lookups by 25%.
- Collaborated with senior developers to refactor large SaaS components into micro-frontends, boosting modularity and cutting cross-team code merge conflicts by ~40%.

PROJECTS

HoosReview – [GitHub](https://github.com) — **Charlottesville, Virginia**
UVA Student Platform — *April 2024 – Present*
- Created an MVP with JavaScript, HTML, CSS, Bootstrap, and PostgreSQL to help students find and review 50+ UVA clubs and events.
- Currently enhancing the UI and planning data scraping to increase student club participation and give recruiters real-time insights into top-performing organizations.

EDUCATION

Georgia Institute of Technology – Online — **Atlanta, Georgia**
Master of Science in Computer Science — *Expected August 2027*
- Specializing in Machine Learning and Interactive Intelligence

University of Virginia — **Charlottesville, Virginia**
Computer Science — *May 2024*
- Cumulative GPA: 3.8
- Coursework: Data Structures and Algorithms 1 & 2, Web Development, Database Systems, Artificial Intelligence, Cybersecurity, Computer Systems and Organization 1 & 2, Calculus 1, Statistical Analysis

HONORS, SKILLS & INTERESTS

Honors & Certifications: AWS Cloud Practitioner, Magna Cum Laude, Gold Key from Scholastic Art & Writing Awards, AP Scholar
Skills: Python, Java, AWS, Typescript, JavaScript, SQL, React, Angular, Redux, Jest, Cypress, MongoDB, Figma, Tailwind CSS, Git
Interests: Barista, Acrylic and Charcoal Art, Photography, Swimming, Dogs, International Travel