SAMUEL KNORR

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EDUCATION

University of Virginia, School of Engineering and Applied Sciences, Charlottesville, VA _**May 2025**_
B.S. Computer Engineering Minor in Engineering Business
- GPA: 3.7/4.0
- Courses: Data Structures and Algorithms 1 & 2 - Computer Systems and Organization 1 & 2 - Electrical and Computer Engineering Fundamentals 1 & 2 - Software Development Essentials - Intro to Cybersecurity - Cloud Computing

EXPERIENCE

DevOps Engineer Intern, **ASML Holding,** San Jose, CA _**Summer 2024**_
- Implemented JFrog Artifactory build info feature into build pipeline. Displays build metadata to assist in analysis. Employed PowerShell scripting to automate data collection, and publishing processes of dozens of builds. Build metadata included environment variables, associated Jira issues, git logs, artifacts, and dependencies.
- Updated over 40 bamboo agents to operate with latest GCC compiler. Tested in Kubernetes Lens and local Docker image. Utilized Microsoft Azure to put updated agents into production.
- Gained understanding of the CI/CD and agile software development processes while completing projects and assisted in sprint planning.

Software Engineering Intern, **ASML Holding,** Wilton, CT _**Summer 2023**_
- Led a project leveraging Github actions to analyze git runner health of over 80 runners on set intervals and deployed a website wallboard using JS and Jquery to show updates on local office TV, accomplished project 2 weeks before deadline.
- Devised another project with Github workflows, Python, and Jira Rest API to automatically create over 50 reminder tickets for AIs and TLs to help organize and facilitate scheduled releases, automated to be repeated for every release and populate necessary Jira calendars. Completed 1 week ahead of schedule.
- Learned about software development life cycle through these projects and sprint planning sessions. Both were pushed to production. Gave a presentation demoing both of these projects to team and key stakeholders.

PROJECTS

Stock Sight _**Summer 2024**_
- Trained a Llama 3 8b model with 30,000 instructions to predict ETF stock closing prices. Deployed model with AWS and used on a Django-based website including users, portfolio management, REST API capabilities, and real-time stock data visualization. Implemented REST API feature for users to add portfolio information.

Job Application Management _**Summer 2023**_
- Developed a job application tracking website deployed with React and AWS Amplify, leveraging AWS for backend storage, including user authentication, export to CSV, and job recommendations by utilizing OpenAI's API, resulting in a streamlined and personalized user experience.

Class Review Project _**Spring 2023**_
- Designed a Java application with a JavaFX GUI and SQLite, enabling users to sign in or create accounts, leave or view class reviews, and utilized SQL for class verification, with usernames and classes stored in separate databases, enhancing user interaction and data organization.

Mock Wordle _**Spring 2023**_
- Developed a mock Wordle game with Java and JavaFX GUI, mirroring the NYT web game, and employed both white-box and black-box unit testing to ensure a bug-free, polished project and a positive user experience.

SKILLS

Languages: Python - Java - HTML - CSS - JavaScript - Powershell Scripting - SQL
Technologies: Git - Github Actions - JIRA - REST API - Docker - Bamboo -Artifactory - Kubernetes - AWS - Azure DevOps

ADDITIONAL INFORMATION

AWS Certified Cloud Practitioner, August 2023-August 2026
Personal Portfolio: https://www.samuelknorr.com/
LinkedIn: https://www.linkedin.com/in/samuel-knorr-8b924216a/