Riley Fletcher

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EDUCATION

University of Virginia — Charlottesville, VA
Bachelors in Computer Science, Minor in Data Science — *GPA 3.8 — May 2025*

EXPERIENCE

Computer Science Teaching Assistant — January 2024 – May 2024
University of Virginia — *Charlottesville, VA*
- Obtained secret clearance to work on desktop app written in JavaFX, FXML, and CSS for a CIAT Navy program
- Modernized codebase using SonarQube to address OWASP Top 10 security flaws and introduced JUnit tests
- Enhanced app network efficiency by implementing VMWare virtual machines curbing bandwidth consumption
- Upgraded outdated CI/CD process to leverage GitLab, Gradle, and Jenkins to build, test, and package code

Software Engineering Intern — April 2023 – August 2023
United States Navy — *Dahlgren, VA*
- Obtained secret clearance to work on desktop app written in JavaFX, FXML, and CSS for a CIAT Navy program
- Modernized codebase using SonarQube to address OWASP Top 10 security flaws and introduced JUnit tests
- Enhanced app network efficiency by implementing VMWare virtual machines curbing bandwidth consumption
- Upgraded outdated CI/CD process to leverage GitLab, Gradle, and Jenkins to build, test, and package code
- Worked in an agile environment of 8 developers using Jira to perform sprint planning and daily standups
- Utilized Bash scripts to automate software deployment and configurations on Red Hat Linux machines

Information Technology Intern — June 2022 – April 2023
Virginia Railway Express — *Alexandria, VA*
- Wrote PowerShell scripts for querying and organizing employee data used in cybersecurity audits
- Closed over 100 help desk tickets involving SharePoint, OneDrive, Azure virtual machines, and Cisco devices
- Facilitated setup of user workstations and assisted Systems Engineer in auto-deploying software with Autopilot
- Performed maintenance on switches, security appliances, and servers to help rearchitect office network layout

PROJECTS

HistoryMaps | *React.js, Next.js, Spring Boot, PostgreSQL, AWS, JUnit, Jest, Gradle* — GitHub
- Full-stack web application showcasing important historical events written in Java, JavaScript, HTML, and CSS
- Frontend hosted on AWS Amplify, monitored with CloudWatch, and containerized with Docker for portability
- Backend hosted with AWS Elastic Beanstalk, RDS PostgreSQL instance for storage, and EC2 to edit via SSH

Discord Trivia Bot | *Python, MySQL, PyQt* — GitHub
- Built a Python Discord bot using the Discord.py and OpenTrivia APIs adding server and admin commands
- Created PyQt GUI app to communicate with client utilizing sockets and multithreading for seamless connection
- Used a MySQL server to store and update user data for leaderboards and query user data used in bot commands

SocketTalk | *Java, JavaFX, CSS* — GitHub
- Utilized socket programming and multi-threading to let multiple users interact in real time over a network
- Built a JavaFX application with a reactive UI allowing users to send and receive data efficiently
- Added additional styling using CSS and BootstrapFX to provide a modern and easily navigable application

CarCompare | *React.js, Spring Boot, PostgreSQL* — GitHub
- Built a responsive, minimalist front-end with React.js/HTML/CSS and Bootstrap for additional styling
- Created a REST API using Spring Web and JPA to make HTTP requests performing CRUD operations
- Utilized a PostgreSQL database for storing data points such as make, model, horsepower, and cost

Chess Game | *Java, Swing* — GitHub
- Created a desktop application for a two-player chess game with the Java Swing graphics library
- Used model-view-controller architecture to adhere to SOLID design principles for fluid feature extension

Engineering Club | *C++, Arduino, Raspberry Pi, Python, Ubuntu* — Jan. 2022 – May 2022
- Collaborated with 20+ club members to design a rover that maps campus with Python OpenCV library
- Created libraries for Arduino microcontroller in C++ to process sensor data and communicate with Raspberry Pi

Technical Skills

Languages: Java, Python, JavaScript, C, C++, HTML/CSS, SQL, PowerShell, Bash
Frameworks: Spring Boot, Django, React, Svelte, Next.js, JUnit, Bootstrap
Developer Tools: AWS, GCP, Git, GitLab, Docker, Jenkins, MySQL/PostgreSQL, Gradle, Maven
Libraries: JavaFX, PyQt, Material-UI, Pandas