Aryan Kumawat

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EDUCATION

Virginia Commonwealth University Richmond, VA

Bachelor of Science in Computer Science, Concentration in Software Engineering *Aug. 2022 – May 2026*

EXPERIENCE

Capital One June 2025 – August 2025

Software Engineering Intern

- Standardized feature engineering by developing a modular Python library, reducing onboarding time by 20%.
- Packaged library as a Kubeflow component supporting Pandas and PySpark, enabling scalable preprocessing pipelines.
- Made performance visible by creating a benchmarking module exposing per-step latency stats for targeted tuning.
- Led DevOps integration, overseeing build and release for CI/CD deployment to Artifactory via Jenkins.

Cvent June 2024 – August 2024

Software Engineering Intern

- Prevented destructive edits in Meeting Request Forms by enforcing dependency checks across integrated systems.
- Resolved hierarchy errors and support tickets by implementing iterative-DFS traversal and validation of question trees.
- Reduced unintended deletions by 25% by adding accessible confirmation dialogs using React state hooks.

VCU Student Managed Investment Portfolio February 2024 – present

Healthcare Sector Head, Investment Analyst

- Lead healthcare sector coverage for a $400K fund, leveraging Bloomberg Terminal and valuation modeling to develop, pitch, and execute equity trades.

Federal Reserve System May 2023 – August 2023

Software Engineering Intern

- Cut QA cycle time by 15% by extending Selenium WebDriver in Java/Spring Boot to configure Edge browser settings.
- Boosted reliability by adding 10+ automated tests and refactoring legacy modules, fixing six critical bugs.

Dartmouth Hitchcock June 2021 – August 2021

Machine Learning Research Intern

- Saved 10% workflow time by integrating a Three.js 3D point-cloud viewer with TensorFlow image segmentation for faster Mohs surgery case review by pathologists.

PROJECTS

SeniorShield | *Python, OpenCV, Raspberry Pi, Swift*

- Delivered real-time caregiver alerts by deploying OpenCV facial recognition on Raspberry Pi with iOS push notifications.
- Preserved privacy with an on-device capture/recognize/notify pipeline in Python, processing entirely at the edge.

RamShare | *PHP, SQL, HTML, CSS, Javascript*

- Built a full-stack ride-sharing platform for VCU students with auth, profiles, ride listings, booking, and notifications.
- Architected the platform's normalized schema, modeling entities, relationships, and integrity constraints.

Othello AI Bot | *Python, Minimax, Alpha-beta pruning*

- Achieved >90% win rate by tuning a weighted heuristic for mobility, corners, and positional advantage.
- Implemented alpha–beta pruning in a minimax search to reduce evaluated game states and speed decision-making.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, PHP
Frameworks and Libraries: React, Node.js, Flask, JUnit, Cucumber, Selenium, Maven, Jest, Scikit-learn, Pandas, Pyspark
Technologies: Git, Docker, Kubernetes, Linux, Bash, Jenkins, Apache Spark, IOT, AWS (Lambda + S3), MySQL, Arduino
Concepts: Backend Development, Frontend Development, Fullstack Development, Software Engineering, Machine Learning, Networking, CI/CD, Microservices, Infrastructure Engineering, DevOps, Automation, Agile