Aryan Kumawat

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EDUCATION

Virginia Commonwealth University   Richmond, VA
Computer Science, Concentration in Software Engineering; GPA: 3.9   *Aug. 2022 – May 2025*
- **Activities**: Honors Scholar, MegaHack Leadership, Student Advisory Board for Department of Computer Science
- **Relevant Coursework**: Data Structures, Algorithms, Discrete Structures, Computer Organization, Computer Systems, Economics of Product Development and Markets

Thomas Jefferson High School for Science and Technology   Alexandria, VA
Mobile and Web Application Development Research; GPA: 4.3   *Aug. 2018 – May 2022*
- **Relevant Coursework**: Machine Learning, Artificial Intelligence, Multivariable Calculus, Linear Algebra, Statistics

EXPERIENCE

Software Engineering Intern   May 2023 – August 2023
Federal Reserve System   *Richmond, VA*
- Revamped and fixed capabilities of Microsoft Edge web driver for use within testing environment, allowing Quality Assurance to explicitly configure Edge browser for efficient test automation.
- Enhanced the Selenium framework by developing reusable methods for specific scenarios.
- Developed several automated test scripts and successfully identified and corrected multiple bugs, resulting in a significant improvement in the quality of the testing framework.

Machine Learning Research Intern   June 2021 – August 2021
Dartmouth College   *Hanover, NH*
- Enhanced MOHS surgery procedures by developing 3D point cloud, model viewing interface, image segmentation models, and 3D lab automation. Up to $\sim$30% time savings via improved communication and workflow

Software Engineering Research Intern   June 2021 – July 2021
George Mason University   *Fairfax, VA*
- Conducted research on Microtask Programming, contributing to the organization of the first-ever Microtask Programming Hackathon. Developed tasks and APIs for the hackathon while designing the event's structure and surveys.

Software Engineer   July 2020 – August 2020
Gradder   *Kyiv, Kyiv Oblast*
- Developed backend technologies and REST APIs for student and teacher functionalities. Implemented efficient search algorithms and user admin permissions.

PROJECTS

SeniorShield   May 2021
- A mobile application that allows cognitively impaired individuals, particularly senior citizens, to stay safe within their homes.

ProtestFind   June 2020 – August 2020
- Won HackDefy Best Activism/Empowerment Hack. Online service that allows people to manage, create, and join protests around the country.

Senior Assistive Button   November 2018 – May 2019
- Won 1st place at Fairfax County Shark Tank Technology Challenge. Helps seniors live alone in the convenience of their homes while reassuring caregivers of their senior's wellbeing.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML, CSS, Assembly, SQL
Frameworks and Libraries: React, Node.js, Flask, JUnit, Cucumber, Selenium, Maven, Scikit-learn, TensorFlow, NumPy
Technologies: Linux, Bash, Git, IOT, AWS (Lambda + S3), MySQL, MongoDB, Arduino, Raspberry Pi