ARYAN R. KUMAWAT

kumawatar@vcu.edu
kumawataryan.com
github.com/aryankix101

EMPLOYMENT

Software Engineer Intern	Gradder	**Summer 2020**

AI-Based School Management System
- Implemented backend technologies, wrote REST APIs for student and teacher classes, developed search algorithms and admin permissions for users. Used Flask and MongoDB.

Web & Backend Technologies Intern	HKP Solutions LLC	**Summer 2020**

Mobile applications for the hospitality industry
- Worked as both web and backend develop, developed many mockup screens, website and email services, wrote API for hotel manager class. Used React, EmailJS and Firebase.

EDIT Research Intern	Dartmouth-Hitchcock	**Summer 2021**

- Developed 3D Lab Automation Components for MOHS surgery under the Dartmouth Department of Pathology and Laboratory Medicine. Developed 3D point cloud, model viewing interface and image segmentation models.

ASSIP Research Intern	George Mason University	**Summer 2021**

- Conducted research towards the first ever Microtask Programming Hackathon. Created task and API for hackathon, designed hackathon structure and surveys.

Lead Instructor	Fairfax Collegiate	**Summer 2022**

- Taught Robotics and Web Development (HTML, CSS, Javascript, Jquery, and Git) to dozens of elementary and middle school students.

EDUCATION

Virginia Commonwealth University

Richmond, VA		August 2022 – May 2025

- Relevant Coursework: Data Structures and Object Oriented Programming; Introduction to Discrete Structures

Thomas Jefferson High School for Science

Alexandria, VA	and Technology	August 2018 – June 2022

- GPA: 4.32 (Weighted); 3.72 (Unweighted)
- Relevant Coursework: Post AP's: Machine Learning; Artificial Intelligence; Multivariable Calculus; Linear Algebra; AP's: Computer Science; Statistics; Calculus BC; Additional courses: Robotics; Digital Electronics; Mobile and Web Applications Research

TECHNICAL EXPERIENCE

Projects
- **Senior Assistive Button** (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. IOT, AWS.
- **ProtestFind** (2020). Won HackDefy Best Activism/Empowerment Hack. Online service that allows people to manage, create, and join protests around the country. Flask, Google API.
- **SeniorShield** (2021). A mobile application that allows cognitively impaired individuals, particularly senior citizens, to stay safe within their homes. Python, Raspberry Pi, Swift.
- **TutorFind** (2022). Application that helps connect students and tutors. Flutter, Firebase.

ADDITIONAL EXPERIENCE AND AWARDS

- **Trilingual:** English, Hindi, Russian.
- **Code++ President:** Led computer science club of 20+ members which teaches advanced frameworks.
- **Mobile Applications Club Officer:** Webmaster and lecturer of computer science club which teaches mobile application development.
- **ACSL All-Star:** One of 1200 students chosen to compete in the American Computer Science All-Star League Contest.
- **Outstanding Delegation (Model United Nations):** Second place winner at CHMUN, ILMUNC, NAIMUN. Two were national/international conferences with 100's of delegates.

LANGUAGES AND TECHNOLOGIES

- **Languages:** Python; Java; C++; HTML; CSS; JavaScript; Julia
- **Technologies:** React/React Native; Node.js; Flask; Django; Scikit-learn; TensorFlow; Numpy; Three.js; Blockchain; Arduino; Raspberry Pi