Aditya Vikram Singh

✉ me@adityavsingh.com | 🌐 adityavsingh.com | AVS1508 | in avs1508

EDUCATION

University of Massachusetts Amherst   Expected Grad. Spring 2023
B.S. (Honors) in Computer Science and Mathematics (Statistics and Data Science)   GPA: 4.00
- **Distinctions:** Commonwealth Honors College | Dean's List (All Semesters) | Chancellor's Award Scholarship
- **Selected Coursework**: Computer Systems Principles, Probability Theory, Discrete Mathematics, Programming Methodology, Data Structures, Data Analysis in R, Multivariate Calculus, Ordinary Differential Equations, Linear Algebra

WORK & LEADERSHIP EXPERIENCE

BUILD UMass   Sep 2020 - Present
Software Developer   Amherst, MA
- Developing a website for the UMass Entrepreneurship Club using React, Bootstrap, and Netlify CMS, in a team of 4 members
- Involved in the web development aspect for the club's pro-bono engagements and corresponding technical consultations with clients

VirtuBox Infotech Private Limited   Summer 2020
Business Development Associate   Noida, India
- Developed engineering workflows and prepared suggestions for a smoother transition from Vue.js codebase to React codebase for CMS
- Worked on competitor analysis, keyword research, and image production, for app-store optimization of 5 client applications
- Produced 10+ video tutorials explaining the functionality of the company's CMS dashboard, and published them on YouTube

College of Information & Computer Sciences, UMass Amherst   Spring 2020
Peer Tutor   Amherst, MA
- Volunteered to participate in one-on-one peer tutoring for 2 introductory computer science courses, as part of optional curriculum
- Conducted weekly meetings with tutees to go over basic programming principles and discuss assignments in Java and pseudocode
- Explained various implementations of data structures like stacks, queues, hash-maps, BSTs, and graphs to 10+ students

Student Council, Delhi Public School, R.K. Puram   Apr 2018 - Apr 2019
President   New Delhi, India
- Oversaw student discipline and represented the students' interests at 20+ school events for fairer policies pertaining to them
- Liaised between students, faculty, and administration, and supervised most student-run events in lieu of school coordinator

PROJECTS

- [Entrepreneurship Club Website](#) developing an end-user customizable website for the UMass club | **React, Bootstrap, & Netlify CMS**
- [Clue Text Adventure Game](#) engineered a command-line application representing a variant of a text adventure game of Clue | **C**
- [Perpetual Crusades](#) designed a medieval-themed dice-based board game with role-playing | **React, Bootstrap, & CSS Grid**
- [Personal Résumé Website](#) developed an interactive web résumé/portfolio for personal use | **HTML, CSS, Bootstrap & JavaScript**
- [DocuSign EForm Application](#) designed a web app for streamlining NGO donations and volunteering | **Flask & DocuSign eSign API**
- [Employment Diversity Study](#) conducted a data analysis study of tech-sector employment diversity in Silicon Valley | **R & ggplot2**
- [JavaScript Interpreter](#) engineered an interpreter in Ocelot for imperatively-programmed subset of JavaScript | **ElementaryJS**
- [Account Management System](#) programmed a command-line application for account management and financial maintenance | **C++**

SKILLS

- **Languages**   Java | JavaScript | Python | C | C++ | R
- **Front-End**   React | Bootstrap | HTML | CSS
- **Back-End**   Node.js | Django | Flask | SQL | XML
- **Libraries**   Selenium | ggplot2 | TensorFlow
- **Utility**   Bash | Zsh | Git | Markdown

CERTIFICATIONS

- **HackerRank**   C++ (Basic)
                   Java (Basic & Intermediate)
                   JavaScript (Basic)
                   Python (Basic & Intermediate)

- **Coursera**   Basic Sentiment Analysis with TensorFlow
                   Coding Yourself! An Introduction to Programming
                   Data Science Math Skills
                   Introduction to Programming in MATLAB