

Aditya Vikram Singh

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📍 Amherst, MA

EDUCATION

University of Massachusetts Amherst

GPA: 4.00/4.00

Aug 2019 - Dec 2022

Bachelor of Science in Computer Science and Mathematics (Statistics and Data Science)

Amherst, MA

- **Distinctions:** Commonwealth Honors Scholar, Dean's List (All Semesters), Chancellor's Award Scholarship
 - **Organizations:** BUILD UMass, HackUMass Organizing Team, UMass Association for Computing Machinery
 - **Coursework:** Search Engines*, Data Management*, Software Engineering*[†], Algorithms[†], Artificial Intelligence, Computer Systems Principles, Probability Theory, Discrete Mathematics, Programming Methodology, Data Structures, Data Analysis in R, Linear Algebra, Multivariate Calculus, Statistics I
- *: **In-Progress**, [†]: **Honors**

SKILLS

Languages: JavaScript, Java, Python, C, C++, R, SQL

Frameworks: React, Redux, Node.js, Express, Django, Flask, Bootstrap

Databases: MongoDB (mongoose), PostgreSQL, MySQL

Development: Git, Docker, SwaggerUI, Postman, Selenium, Agile, Scrum

INDUSTRY EXPERIENCE

InnovationM Technologies, Software Development Intern

Noida, India

Jun 2021 - Aug 2021

- Developed a grievance redressal platform for internal use by 200+ employees from scratch, in a team of 2 JavaScript developers
- Built the backend using Node.js with Express server and modelled the database layer using MongoDB through mongoose wrapper
- Designed the frontend using React along with Redux state management and performed partial API integration
- Containerized the application using Docker for ease of deployment as a service in a microservice architecture framework

Virtubox Infotech, Business Development Associate

Noida, India

Jul 2020 - Aug 2020

- Developed engineering workflows and prepared comprehensive suggestions for transition from Vue.js 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

ACADEMIC EXPERIENCE

CICS @ UMass Amherst, Undergraduate Course Assistant

Amherst, MA

Aug 2021 - Present

- Assist the instructor and TAs to help students taking CS 240 understand the principles and applications of Probability Theory
- Grade homework assignments for 300+ students and provide constructive feedback to help students learn better
- Respond to students' questions on Piazza promptly to explain core concepts and resolve doubts pertaining to course materials

CICS @ UMass Amherst, Peer Tutor

Amherst, MA

Jan 2020 - May 2020

- 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, heaps and graphs to 10+ students

PROJECTS

HackUMass Website (github.com/fuseumass/hackumass.github.io)

HTML, CSS, React

Sep 2021 - Present

- Contributing in updating the HackUMass website with recent information and new features, along with 10+ tech members
- Refactoring repetitive elements by transitioning the website to a React framework for easier updates and greater abstraction

Elementary Chatbot (github.com/AVS1508/elementary_chatbot)

Python, Rasa, spaCy

Jun 2021 - Aug 2021

- Built a Rasa chatbot for Facebook Messenger using spaCy NLP components as a 12-week externship project with Sopra Steria
- Tuned the chatbot to focus on 50+ COVID-19 specific queries and accordingly specified responses using Rasa's built-in interface
- Created a 24-page report explaining the project's use cases and suitability for social good through natural language understanding

Perpetual Crusades (github.com/AVS1508/perpetual-crusades)

React, Bootstrap, CSS Grids

Mar 2020 - Jul 2020

- Designed a medieval-themed dice board game with role-playing elements analogous to Dungeons and Dragons for PennApps XXI
- Developed character selection menu, implemented randomized dice throw, and modeled dynamic board with game state notifications

DocuSign eForm Application (github.com/AVS1508/DocuSign-Project)

Flask, Jinja2, DocuSign API

Aug 2020 - Sep 2020

- Designed a web app for streamlining virtual NGO logistics by authenticating electronic forms via DocuSign API, in a team of 3
- Programmed a Flask server for handling volunteering/donation forms, and implemented support for digital signature verification