Vibhu Agrawal

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EDUCATION

University of Maryland | Bachelor of Science in Computer Science with Honors | Expected May 2023
- College Park Scholars - Global Public Health program
- Advanced Cybersecurity Minor (ACES)

GPA: 3.86/4.0

Relevant Coursework
- *CMSC 422: Introduction to Machine Learning, CMSC 351: Algorithms, CMSC 320: Introduction to Data Science (Programming in Python, Scikit-learn, Pandas), CMSC 216: Introduction to Computer Systems (Programming in C/C++ and Assembly), CMSC 132: Object-Oriented Programming II (Advanced programming in Java)*

SKILLS

Java | Javascript | Python | C/C++ | Swift | SQL | HTML | CSS | MATLAB | Ruby | OCaml | ReactJS | R | Typescript | Rust

Tools: GitHub | OpenCV | Jira | Jupyter | Bootstrap | XCode | Agile development | MERN stack | VSCode | Linux

Languages: Hindi (*fluent*) | German (*fluent*)

PROGRAMMING EXPERIENCE

Open-Source Project - Ply   May 2021 - Aug. 2021
- Contributed to open-source project Ply written in Typescript, a tool to automate REST and GraphQL API testing
- Fixed an open issue with the VSCode extension by adding functionality to interact with the graphical UI using the command palette and hotkeys

Course Final Project - Diabetes Prediction   Jun. 2021 - July 2021
- Trained a machine learning model on diabetes dataset for final project for Data Science course, using methods like cross validation and hyperparameter tuning to get 80% classification accuracy

Club - Hack4Impact   Aug. 2020 - Present
Senior Developer | University of Maryland
- Developed websites in a team environment for non-profit organizations like Inspire and Empower which works to reduce women's barriers to enter STEM fields
- Used agile development methodology and React-Bootstrap to deliver dynamic and responsive websites to clients
- Led development of custom React-Bootstrap components and created a custom CMS using Strapi and Axios API

Personal Project - Machine Vision AI Face Recognizer   Dec. 2020 - Jan. 2021
- Used Python and OpenCV to train a model that detects and recognizes human faces using a camera
- Capability to detect multiple faces at once and match faces if previously seen and stored in database

Job - OrbitalPoint   July 2018 - Aug. 2020
Website Administrator | Greenwood Village, CO
- Managed Dayton Farms Neighborhood website for the Homeowners Association
- Created web pages, uploaded and modified documents, created and maintained user management system, troubleshooted user issues, and fixed security issues

Job - Ellipse Analytics   May 2019 - Aug. 2019
Data Analyst Intern | Denver, CO
- Helped with digitizing packaging, delivered on research requests by running SQL queries against the MySQL database, as well as organizing inventory resulting in more efficient and timely completion of client requests

VOLUNTEERING

Generation Tech   June 2019 - May 2020
Tech Assistance | Denver, CO
- Led development of an SMS Chatbot using Python and Twilio to log volunteer hours leading to more informed volunteers and smoother operation