VAIBHAV ARORA

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EDUCATION

University of Notre Dame, College of Engineering   Notre Dame, IN
Bachelor of Science (BS) | Computer Engineering   May 2023
Major GPA: 3.759

Languages/Frameworks: C | C++ | Python | Java[Android] | C# | SQL | MATLAB | Bash | JavaScript | GitHub | HTML/CSS
Courses: Data Structures | Systems Programming | Logic Design | Fundamentals of Computing | Discrete Mathematics | Introduction to Embedded Systems
Certifications: IBM Chatbot Certificate | IBM Python Certificate

EXPERIENCE

Full Stack Developer, **BMI Audit Services, South Bend**   May, 2021 – August, 2021
- Created C# based Windows Forms to aid in task automations and reduce user involvement by over 50%
- Wrote SQL Queries to store data in databases with filters to ensure no 'garbage' data can be stored
- Utilized JavaScript to create survey popup to grab user attention and increased survey response rate by 10%
- Aided with UI/UX improvements with a quick turnaround of less than 12 hours per project

*Google Preternship Software Engineer, **Data Structures, Notre Dame***   Spring, 2021
- Collaborated with a team of four to engineer an easy to use, accessible, and useful website for people to find online games to play with their friends remotely.
- Developed a python sorting and searching script to filter through a games database based on user inputs
- Wrote a HTML/CSS based website and used JavaScript to display python output to website

Intern, **Race2Revenue Program, Idea Center, Notre Dame**   May, 2020 – August, 2020
- Developed a robotics based last mile delivery solution
- Spearheaded funding procedure to raise $1350 for product development
- Interviewed over 30 business owners and more than 75 customers to forecast product acceptance
- Engineered Product prototype including Android App and server-side Software Development

Intern, **Computer Engineering Department, Indian Institute of Technology, Mumbai**   March, 2018
- Worked under Professor Umesh Bellur, head of Computer Engineering Department
- Devised an automated energy saving system using Arduinos, Raspberry Pi's and sensors
- Tracked power savings to an approximate 10% per unit
- Won school Shark Tank competition using technology for smart room lighting

App Developer, **ICICI Securities Pvt Ltd, Mumbai**   June, 2017
- Authored an Android app using Android Studio for real-time stock market price tracking
- Secured app with user credential verifications from Company database
- Merged app with the already published company app as an additional information page

LEADERSHIP & PROJECTS (GitHub)

Squash Coach, **University of Notre Dame**   August, 2019 – Present
- Planned and conducted 8-week instructional series for beginners in squash
- Doubled student participation in coaching lessons
- Formalized Squash coaching in University Sports Program

Project, Personal Website   July, 2021 - Present
- Built a HTML/CSS based website to highlight professional achievements
- Enhanced user experience with JavaScript based animations
- Utilized Firebase to host the site with a custom domain name

Standard Base Programmer and Pit Crew Member, **NDRoboticFootball**   August, 2019 - Present
- Analyzed hardware issues and promoted specific part upgradation
- Generated real time error logging and runtime fault detection using python
- Reduced mid game machine shutdowns and frequency of part replacement
- Utilized Gitlab for cross team collaboration

Project, **Key Notes**   Summer, 2020
- Composed a note taking application for secure data storage
- Administered Google Firebase for cross device syncing of data
- Developed Navigation Windows and Databases for UI and backend of app

Other Skills: Writing, Leadership, Problem Solving, Adaptive, Quick Learner, Multilingual