

VAIBHAV ARORA

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EDUCATION

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

Notre Dame, IN
May 2023

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](#))

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

2nd Place Winner, Hesburgh Hackathon, 2021 May, 2021

- Built a Web App based social platform to connect people over food
- Utilized MongoDB to build a secure database
- Build UI/UX using Javascript frameworks and used Python flask to build the backend

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