

# YASH SINGH

## Software Developer



### WHO AM I?

A detailed-oriented, responsible individual with a get-it-done on time and high quality product spirit. I also happen to be a good learner and a team player/leader who likes to put his analytical, problem solving and communication skills to get the task done with mind set to start contributing from day one. **Visit my website to know more about me!**



### EDUCATION

#### Virginia Tech - 2021

Bachelors of Engineering - Computer Engineering



### SELECTED PROJECTS

#### Automated Warehouse Robot

Aug 2021 - Oct 2021

**Skills used: Python, SolidWorks, CSS, GitHub**

- Led a team of 4 members to develop a warehouse robot that would automate the process of moving boxes.
- Managed the overall functioning and integration of code.
- Developed the algorithm for intercommunication of various different components over a MQTT server.
- Worked on the developed of the 3+ DOF robotic arm.

#### Fire Hazard Detection System

May 2021 - Aug 2021

**Skills used: Python, Arduino, MIT App Inventor, GitHub**

- Team lead with a team of 3 people where we developed a wireless sensor that could be deployed remotely.
- The team implemented a DC/DC converter to power the wireless sensor node via solar energy.
- Individually developed of the mobile GUI for the sensor, which was used to display the analog temperature readings taken by the sensor as digital readings.
- Contributed towards testing and debugging process.

#### Graphic Mobile Banking Application

Aug 2020 - Dec 2020

**Skills used: C++, Qt, Git, Vagrant**

- A full stack app development which demonstrates my ability to work with back-end and the front-end.
- Used Qt cross platform for front-end development, made a GUI for a fully functional ATM.
- Worked with multi thread application so two processes were handled simultaneously for the back-end structure.
- Included various features like Open and Close Account, Withdraw, Deposit with pin protection.
- Incorporated a very wide range of error checking and thorough testing for TUI as well as the GUI.



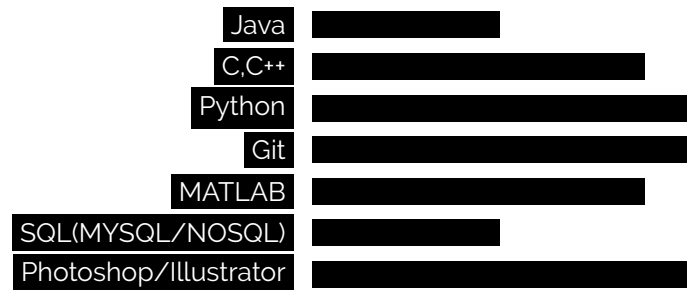
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### CORE SKILLS



### SELECTED EXPERIENCES

#### Tata Consultancy Services

Jun 2020 - Sep 2020

**Software Engineering Intern**

- Did 2 case studies which had to be presented to the clients.
- Performed initial client analysis and assessment to begin research process.
- Worked on approach towards the development of new block-chain technologies and completed market research.
- Managed to get a new client for the company.

#### CDAC

Dec 2019 - Jan 2020

**Software Development Intern**

- Was Part of the SQL team to perform testing for different applications where I assisted with network design and optimization ran tests to ensure they work properly.
- Got Trained and worked with SQL and NoSQL.
- Used these database for development of reports, using advanced queries to achieve reporting requirements.
- Reduced the manual entry of queries by 40%, by creating documentation addressing common technical issues.

#### Follett

Sep 2018 - Nov 2019

Hardware Technician and Sales Service Representative

#### BlackStone

Jun 2018 - Aug 2018

**Software Intern**

- The summer training was successfully completed with the company's Knowledge Services Division.
- Here I received basic training in R and Python.
- Then was given the role write test cases for the beta releases for debugging the existing issues.
- Supported previous model releases by analyzing and suggesting code fixes for minor existing software problems.