



# VAIBHAV CHADHA

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 vc2310.github.io/Portfolio

 chadhavaibhav

 vc2310

## Skills

- Excellent hands on experience with **Python, Java, React & Jenkins**
- Strong programming background in **HTML, CSS, JavaScript, C#, C, Linux, C++ & SQL**
- Developing skills on **Verilog, NodeJS & Go**

## Tools & Frameworks

- OpenShift
- JFrog Artifactory
- Eclipse
- GitHub / GitLab
- MongoDB
- Autodesk Inventor
- BootStrap
- UrbanCode Deploy
- IBM DB2

## Coding Competitions

### **RBC Innovation**

**Hackathon (2019):** Awarded most innovative solution for creating a demo for instalment credit card payment plan.

### **DeltaHacks V (2019):**

Worked on NFC shopping system that relied on a central server.

### **DeltaHacks IV (2018):**

Worked on a project to assist blind people navigate through a room leveraging amazon echo.

### **Microsoft Coding**

#### **Challenge (2018):**

Individually tackled the given problems using Java and Python.

## Education

### **Bachelor of Engineering (Year V)**

#### **Software Engineering (Co-op)**

McMaster University, Hamilton, Canada

*Expected Graduation 2021*

**Award: Deans' Honour List 2019**

**Relevant Courses:** Databases, Algorithms, Digital Systems, Software Design, Signals, Concurrent Programming, Software Security and Web Development

## Work Experience

### **Software Development Engineering Intern**

June 2020 – August 2020

ArcGIS Enterprise, **ESRI**, California, USA

- Developed next gen Issue Tracking web application to manage all GitHub issues using HTML, JavaScript, NodeJS, Zenhub API and Git.
- Generated an issue report to be sent via emails using a NodeJS Server.
- Developed scripts to install ArcGIS runtime against Linux, suse & RHEL.
- Leveraged Jenkins and Python to develop automated self-testing portal.

### **Software Developer Intern**

January 2020 – April 2020

TD Securities, **TD Bank**, Toronto, Canada

- Developed Python script for monitoring ITRS tools in Ambari Environment.
- Wrote Python scripts to create an alerting system for Hadoop Disk Space.
- Added new features to a Springboot Application by using Java, HTML, JavaScript, Thymeleaf, Bootstrap and Mongo DB dataset.
- Managed Middleware & IT server list to ensure accuracy of all servers.

### **Software Developer Intern**

September 2019 – December 2019

Engineering Transformation, **Royal Bank of Canada**, Toronto, Canada

- Wrote Groovy/Bash scripts to migrate code from TFS to Git automatically.
- Containerized ReadyAPI(SoapUI Pro) tests in a Linux based environment.
- Deployed Docker images to OpenShift platform using JFROG Artifactory.
- Implemented Docker containers to create images of the applications and dynamically add it to the Jenkins CI/CD pipelines.

### **DevOps Engineer Intern**

May 2019 – September 2019

Smart-ATM (SATM) Lab, **Royal Bank of Canada**, Toronto, Canada

- Automated build and deployment process for SATM releases using PowerShell and vbs scripting, eliminating 95% of manual work.
- Reduced packaging and build time for ATM releases from ~2weeks to <1hr.
- Created a GUI using Python in order to ease the process of major and minor releases by generating a custom config file for each deployment.
- Performed the tasks in an agile environment using multiple tools such as UCD, Jenkins, Nexus, SCCM and GitHub.

## Key Projects

### **Task Manager | React**

October 2020

- Developed a dynamic website to manage multiple tasks at a time.
- Added additional functionality by adding option for multiple categories, subtasks, assigning priority and adding assigned/due dates to each task
- Demonstrated design research by using reports from multiple personas.

### **Snake Game | Python, Pygame**

January 2019

- Developed a game as a desktop application using Pygame library.
- Increased the complexity of the game by adding features and themes to increase the user experience for the game playground.
- Prepared high level technical documentations to support development.

### **DriveSafe | Java**

April 2018

- Designed and created a navigation interface using Java, giving the clients a chance to explore through the safest short route.
- Used quicksort algorithm on a dataset of 1.5 million rows containing longitude and longitude of past traffic violations.
- Integrated learnings of SDLC, UML diagrams and efficient JUnit testing.