

# VAIBHAV CHADHA

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## WORK EXPERIENCE

### Software Development Engineer II

Jun 2021 – Present

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

- Developed the **Geocoding UI** feature in ArcGIS Ent using **React**, successfully delivered in the latest release to the customers
- UI Developer for the **new ArcGIS Server Manager** in **Vue.js**, driving the design and implementation of its interface
- Implemented **multi-threading** execution which reduced the total amount of time to execute **java** automated tests by 65%
- Architected and maintained 2 **Jenkins** server with over 110 individual pipelines use by more than 40 devs on daily basis
- Developed an internal web dashboard using **HTML**, **JavaScript** & **Konva** to display build test results for senior management
- Own daily deployment and automated test-runs against **Windows**, **Linux** & **Kubernetes** against ArcGIS Enterprise
- Led automation development team of **14 engineers** to achieve efficient software testing and release process.

### Software Development Engineering Intern

June 2020 – August 2020

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

- Redesigned critical issuetracking web application to manage all GitHub issues using **HTML**, **JavaScript** & **Zenhub API**
- Created a **NodeJS** Server that sends out regular emails across the repositories for pending GitHub Issues
- Automated installations to install **ArcGIS** runtime against Linux environments Ubuntu, SuSe and RHEL

### Software Developer Intern

January 2020 – April 2020

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

- Designed and developed a 24-hr alerting system using **Python** scripts to monitor ITRS tools and Hadoop Disk Space
- Added new features to TD Securities **Springboot** application using **Java**, **HTML**, **Javascript**, **Bootstrap** and **MongoDB**

### Software Developer Intern

September 2019 – December 2019

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

- Created a desktop app in **Python** to streamline the process of releases by generating custom configuration files
- Developed **Groovy/Bash** scripts to automate code migration from TFS Source Control to Github Source Control

### DevOps Engineer Intern

May 2019 – September 2019

Smart-ATM Lab, **Royal Bank of Canada**, Toronto, Canada

- Automated build process for Smart-ATM releases with **PowerShell** and **VBScript**, reducing manual work by 95%
- Updated packaging and building process for ATM releases from approximately 2 weeks to less than 1 hour

## PROJECTS

### CommUNITY | React Native, Express, Node, MongoDB

- Developed **cross-platform mobile application** empowering community members to report issues effectively
- Utilized **Mapbox API** enabling users to navigate geographically relevant data through mapping user interface
- Integrated **mobile device camera** allowing users to seamlessly capture photos from within the application

### DriveSafe | Java

- Designed and created a navigation interface using Java, giving clients a chance to explore though the safest route
- Implemented **quicksort** algorithm on a dataset of 1.5Mil rows containing latitude / longitude of past traffic violations

## EDUCATION

### Bachelor of Engineering, Software Engineering (Co-op)

2016 – 2021

McMaster University, Canada

**Relevant courses:** Data Structures, Algorithms, Software Design, Concurrent Programming, Software Security, Database Management, Web Development, Software Requirements and Digital System

## TECHNICAL SKILLS

### Programming Languages

Python, JavaScript, Java, HTML, CSS, Bash, C, Typescript, SQL, REST API

### DevOps

Jenkins, Linux, GitHub, Groovy, Docker, Powershell, Urban Code Deploy, TestRails

### Frameworks

React.js, Vue, SpringBoot, Node, Express, React Native, Bootstrap, jQuery

### Tools, Libraries & Certifications

Agile, IBM DB2, Autodesk Inventor, JFrog, AWS, Azure, GCP, ArcGIS