

VAIBHAV CHADHA

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WORK EXPERIENCE

Software Development Engineer II

Jun 2021 – Present

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

Front-End Development:

- Developed several core UI features in ArcGIS Enterprise using **React.js**, including the locator services UI, about info page, Esri content page, publishing UI and other high-impact components, successfully delivered to the customers worldwide
- Designed internal dashboards with **JavaScript**, **HTML** & **Konva.js** to visualize build metrics for leadership decision-making
- Collaborated with backend and design teams to deliver accessible, localized, high-performance UI across platforms

Automation & DevOps:

- Engineered a custom **multi-threaded Java test framework**, reducing test runtime by **65%** and increasing CI reliability
- Maintained **2 Production Jenkins servers** w/ 110+ pipelines used by 40+ devs daily, improving build confidence and speed
- Built scalable pipelines across **Windows, Linux, and K8s**, cutting feature validation time from 10–15 hours to under **1 hour**
- **Led the automation team**, owning the test framework post-mentor departure and mentoring new engineers.

Software Development Engineering Intern

June 2020 – August 2020

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

- Redesigned critical issuetracking web application to manage all GitHub issues using **JavaScript**, **NodeJS** & **Zenhub API**
- Automated installations to install **ArcGIS** runtime against Linux environments to install from 8hrs+ to under 1 hour.

Software Developer Intern

January 2020 – April 2020

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

- Architected and developed a 24-hr alerting system in **Python** 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

- Built a desktop application in **Python** to streamline the release processes by generating custom configuration files
- Developed **Groovy** and **Bash** scripts to automate code migration from TFS Source Control to GitHub

DevOps Engineer Intern

May 2019 – September 2019

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

- Orchestrated build process for Smart-ATM releases with **PowerShell** and **VBScript**, reducing manual work by 95%
- Improved ATM release packaging process, cutting release manifest time from **2 weeks to under 1 hour**

PROJECTS

CommUNITY | React Native, Express, Node, MongoDB

- Developed a **mobile app** allowing users to report local issues(e.g. Potholes, broken lights) with photos and location tagging
- Enabled community-wide visibility and potential action through a shared map-based interface powered by **Mapbox API**

DriveSafe | Java

- Built a navigation app that analyzed historical crime and traffic violation to generate safer route suggestions
- Implemented custom algorithms to avoid high-risk areas, enhance user safety through **data-driven routing**

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

Languages

Python, JavaScript, Typescript, Java, C, HTML, CSS, Bash, Groovy

DevOps

Jenkins, Docker, Linux, GitHub, Groovy, PowerShell, TestRails, REST APIs, MongoDB

Frameworks

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

Cloud & Platforms

AWS, Azure, GCP, ArcGIS, IBM DB2, JFrog, ZenHub, Mapbox