SYED WAJIH RIZVI

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SKILLS

Languages: Python, Javascript, Typescript, Java, C#, HTML/CSS

Databases: MySQL, PostgreSQL, MongoDB

Frameworks/Libraries: Spring Boot, ASP.NET, Express, React

Others: AWS, Git, Linux, Docker

EDUCATION

University of Waterloo │ Mechanical Engineering & Computer Science

Summary: Full stack developer with over 5 years of experience building scalable web applications

RECENT EXPERIENCE

Ford Motor Company | Software Engineer   September 2023 - Present
- Developed an automation framework for Ford's EV architecture and user settings in next generation vehicles
- Maintained a branch coverage of over **90%** and a code coverage of over **95%** on all product code
- Provided **100% rainy day** coverage across all testing requirements ensuring each edge case was tested
- Reduced code duplication to **under 2%** across multiple components with nearly **100K** total lines
- Tools: **Python, Git, Jenkins, Linux, Powershell**

Ford Motor Company | Software Engineer Intern   September 2022 - January 2023
- Optimized functional tests to reduce runtime by **28%** for **Jenkin's** Nodes
- Developed CLI tools via **Python** to improve the analysis of log files by **44%**
- Improved testing speed by nearly **80%** through delivery of Android based automation tests using **Appium**
- Tools: **Python, Git, Appium, Selenium, Jenkins**

Solace | Software Engineer Intern   September 2021 - January 2022
- Improved functional test speed by nearly **20%** by converting API from **XML** based to **JSON** based which reduced payload size and optimized parsing
- Tools: **Python, Java, SVN**

ADP Canada | Robotics Process Automation Consultant   April 2019 - September 2019
- Identified automation opportunities in several **SOPs** that could reduce the cost of operations by nearly **$500,000**
- Tools: **Python, Excel, Visio**

RELEVANT PROJECTS

Rockstar Games Community Hub | *rockstarcommunityhub.netlify.app* **|** *github.com/syedwajihrizvi/RockServers*
- Built a full-stack application that supported **thousands of users** to serve as a community hub for Rockstar Games players to share content, organize multiplayer sessions, and engage through likes, comments, and notifications
- Utilized **Controllers**, **Dependency Injections** and **Routing** to handle session tracking, mission history, and user participation
- Built **50+ API** endpoints using **ASP.NET** to manage posts, sessions, and user interactions
- Utilized secure authentication (**OAuth, JWT**) and request validation to protect user data
- **Containerized** the ASP.NET backend using **Docker** to enable consistent development and production environments
- Designed and optimized a **MySQL** database with several different schemas that handled **thousands** of records efficiently
- Tools: **C#, ASP.NET Core, WebAPI, Shell, MySQL, React, Typescript, Entity Framework, AWS, Docker**

Apple iPhone 16 Showcase | *syed-rizvi-iphone-16.netlify.app/* **|** *github.com/syedwajihrizvi/iPhone16*
- Developed a launch site for the iPhone 16 which had beautiful carousels and interactive 3D models
- Implemented responsive components that rendered optimized images based on screen width
- Tools: **React, Typescript, ThreeJS, GSAP, Git**

Gamecom for Twitch | *syed-rizvi-gamecom.netlify.app/* **|** *github.com/syedwajihrizvi/GameCom*
- Developed a full stack web application providing information on **millions** of video games
- Built **RESTful API** endpoints with **Express.js**, achieving **70%** faster responses through **CRUD** operations
- Reduced network usage by over **90%** by utilizing **React Query** to implement **infinite queries** and cache API responses
- Tools: **React, Typescript, Express, MongoDB, Framer-Motion, Git, AWS**

City Explorer | *cscape.netlify.app/* **|** *github.com/syedwajihrizvi/CScape*
- Built a full stack web application that provides information on **millions of cities worldwide**
- Integrated **Google Places API** to fetch real time data on destinations, including restaurants, hotels, and amusement parks
- Leveraged the **Weather API** to display live weather data and **7-day** forecasts for any city
- Used **Google's Distance Matrix API** for an optimized **Traveling Salesman algorithm** to plan efficient trips for users
- Tools: **React, Javascript, Express, NodeJs, MongoDB, GSAP, Git**

Autonomous Omnidirectional Robot
- Engineered an omni-directional robot which utilized Lidar to navigate any path autonomously
- Tools: **Raspberry Pi, Python, Linux, AutoCAD, Microsoft Excel**