




# Zulaikha Zakiullah


2B Electrical Engineering

 zulaikha.me

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 /zulaikha-zakiullah

 /zzakiullah

## Skills

**Languages:** Python, C/C++, C#, Java, JavaScript, TypeScript, Ruby, ARM Assembly, VHDL  
**Frontend:** HTML, CSS, React, Vue, Angular, jQuery, Bootstrap, Tailwind CSS, Liquid  
**Backend:** Node.js, Express.js, .NET, NGINX, SQLite, REST API, GraphQL  
**Other:** Git, Android Studio, Jenkins, Vagrant, Qt, JUnit, Robolectric

## Experience

### Software Developer | Ford Motor Company

Jan 2021 – Apr 2021

- Worked on distraction management team to provide APIs for system and third-party apps to use to ensure they are distraction optimized when vehicle is in motion
- Developed API to determine enabling of controls on infotainment system based on vehicle's region market
- Integrated runtime resource overlay packages in Android to load specific settings in vehicle depending on region
- Enhanced distraction management API unit test suite API using Java, JUnit, and Robolectric to increase code coverage by over 20%

### Test Automation Developer | Ford Motor Company

May 2020 – Aug 2020

- Created an automated job to run monthly using Python and Jenkins DSL to delete all unused workspaces in Jenkins machines, speeding up the testing pipeline
- Developed a command line tool with Python and Click to save developers' time by remotely controlling services on any Jenkins machine through SSH as opposed to using RDP
- Implemented the façade design pattern to improve readability and mask more complex components of existing software libraries behind a simpler API, allowing for easier and faster usage

### Firmware Developer | Waterloo Formula Electric

Sep 2019 – Present

- Improved state machine design of power distribution unit to run motor and motor control cooling loops separately, allowing for more efficient use of vehicle's cooling system
- Created firmware team development environment running on Ubuntu using Vagrant and Ruby
- Developed CAN message simulator using Python and CAN tools through parsing of DBC and JSON files, allowing for easy remote testing of tools such as car's dashboard and telemetry

## Projects

### Personal Website | [zulaikha.me](https://zulaikha.me)

May 2021

- Developed personal website with custom UI components and light/dark mode using React and Tailwind CSS
- Created a dynamic user experience by storing user's response to popups each time and changing subsequent popup messages depending on user's previous selections

### UWOSP Website | [uwosp.com](https://uwosp.com)

Apr 2021

- Revamped website for the UW Orphan Sponsorship Program and created custom widgets and components using Shopify Liquid, HTML, CSS, and JavaScript

### Desktop UI | [zzakiullah/desktop](https://zzakiullah/desktop)

Mar 2021

- Created a desktop-themed UI using Vue.js; developed window widget allowing for resizing, minimizing/maximizing, and moving

## Education

### University of Waterloo

(Expected) 2019 – 2024

Candidate for BAsC in Electrical Engineering | **cGPA: 90.3%**