

# Shalin Patel

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## Work Experience

### Personifi AI

SOFTWARE ENGINEER

Kitchener, ON

January 2021 - Present

- Currently working on consumer Android application using Java, and creating API endpoints using Flask.

### Doppl Inc.

SOFTWARE DEVELOPER

Kingston, ON

May 2020 - August 2020

- Implemented a route optimization algorithm in C++ similar to the Travelling Salesman Problem, achieving  $O(n \log(n))$  runtime for the average client use case.
- Created a consumer application for 1000+ users using React-Native, ApolloGraphQL, and Golang.
- Constructed a client front-end for asset tracking and routing using React and tested using Jest.
- Developed an admin dashboard that allows CRUD functionality for back-end routes using MERN stack.

### Ontario Ministry of Government and Consumer Services

INFRASTRUCTURE TECHNOLOGIES SERVICES CO-OP

Toronto, ON

May 2019 - August 2019

- Worked with IBM's Privileged Identity Manager to handle access management for the secure data servers at the Data Center Operations sector in MGCS.
- Designed an algorithm and developed a GUI to successfully automate the process of user modifications in PIM achieving significantly reduced man-hours and a consistent workflow with less chance of human error.
- Optimized SQL queries in SSMS sent through PowerBI reports achieving a 7-fold decrease in time.

## Skills

<b>Languages</b>	Python, C++, JavaScript, Java, C, Bash, SQL, Racket, HTML5/CSS3
<b>Frameworks/Libraries</b>	React.js, Node.js, Django, Scikit-Learn, Numpy, Pandas, Jest, ApolloGraphQL
<b>Technologies</b>	MongoDB, Git, Tableau, Microsoft Flow, Microsoft Azure, PowerShell Scripts

## Projects

### Solar Power Generators

PYTHON | PANDAS | MATPLOTLIB | SCIKIT-LEARN

- Program that successfully predicts power generation and irradiation of solar panels with an 88% accuracy.
- Cleaned data using pandas, detecting for missing values and replacing them with their respective means.
- Performed EDA using Matplotlib to graph the data, identify trends and form initial hypotheses.
- Implemented DecisionTree and XGBoost Regressor models using Scikit-Learn to validate hypotheses.

### Identity Manager

MONGODB | EXPRESS.JS | REACT.JS | NODE.JS | JAVASCRIPT | HTML5 | CSS3

- A full stack MERN web application with a Material UI appearance.
- It allows the user to register/login and store their multiple online credentials and safely logout.
- Incorporated CRUD functionality, the use of React hooks, context and JWT authentication.

## Education

### University of Waterloo

BACHELORS OF COMPUTER SCIENCE

Waterloo, ON

Sept. 2018 - Apr. 2023