

# Shahrukh Qureshi

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## Skills

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Languages	Python, Java, JavaScript, C/C++, Dart
Front-End	React, Flutter, HTML, CSS, SASS, JQuery, Django, Bootstrap, Semantic UI
Back-End	NodeJS, ExpressJS, Python, Java
Additional Technologies	Git, Firebase, MongoDB, MySQL, Unix, Apache HTTP, AWS

## Work Experience

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<b>TDI</b> <i>Software Developer</i> <i>React, NodeJS, Firebase, HTML, CSS</i>	Burlington, ON   April 2020 - Sept 2020
<ul style="list-style-type: none"><li>• Developed User Interfaces using React for reusable component-based development</li><li>• Designed/Deployed large-scale deployments on Firebase</li><li>• Interacted with the Firebase API for user authentication for access to protected routes</li><li>• Integrated Firebase Cloud Functions using NodeJS to create a secure Administrator Portal</li></ul>	

## Projects

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<b>Climate Global</b> <i>React, NodeJS, APIs, HTML, SASS</i>	<a href="https://github.com/ClimateGlobal">github.com/ClimateGlobal</a>
<ul style="list-style-type: none"><li>• Developed User Interface using React for reusable component-based development</li><li>• Perform API requests from the front-end using an Express back-end</li><li>• Use APIs to develop heatmaps that show the effects of Climate Change on a global scale</li></ul>	
<b>North Hacks</b> <i>React, NodeJS, Firebase, HTML, SASS</i>	<a href="https://shaleequreshi.github.io/NorthHacks/#/">shaleequreshi.github.io/NorthHacks/#/</a>
<ul style="list-style-type: none"><li>• Online platform for eager students to show off their skills in a local hackathon</li><li>• Amassed over 30 teams</li><li>• Interacted with the Firebase API for user authentication for access to protected routes</li><li>• Storing user JSON Web Tokens on Firebase NOSQL Database</li><li>• Allowing users upload privileges to Firebase Storage</li></ul>	
<b>Whitehare</b> <i>Python, Django, Pillow, HTML, CSS, SQLite, Sessions</i>	<a href="https://github.com/ShaleeQureshi/Whitehare">github.com/ShaleeQureshi/Whitehare</a>
<ul style="list-style-type: none"><li>• Implemented Django for URL Routing and dynamic page rendering from a single HTML template</li><li>• Designed complex user models</li><li>• Perform queries and modified user data that is stored in an SQLite Database</li><li>• Designed a blog model page to allow authenticated users to access CRUD post functionality</li><li>• Implemented Pillow for image rendering</li></ul>	
<b>Astar Pathfinding Algorithm and Visualizer</b> <i>Python, PyGame, Linear Algebra</i>	<a href="https://github.com/ShaleeQureshi/Astar">github.com/ShaleeQureshi/Astar</a>
<ul style="list-style-type: none"><li>• Determine the most efficient path between a start and end node</li><li>• Algorithm factors in blockades that are between the starting and ending nodes</li><li>• Uses a heuristic function to lower worst-case time complexity</li></ul>	
<b>Password Generator</b> <i>NodeJS, HTML, CSS</i>	<a href="https://shaleequreshi.github.io/Password-Generator/">shaleequreshi.github.io/Password-Generator/</a>
<ul style="list-style-type: none"><li>• Developed for Hack Western 7 (2020)</li><li>• Users can generate random passwords that have a length from 8-2048 (user specified)</li><li>• Users can modify password properties like lowercase, uppercase, numbers, special characters</li><li>• Total of <math>2^{10}</math> possible passwords, so it is unlikely to generate the same password more than once</li></ul>	
<b>TicTacToe 2.0</b> <i>Java</i>	<a href="https://github.com/ShaleeQureshi/TicTacToe-2.0">github.com/ShaleeQureshi/TicTacToe-2.0</a>
<ul style="list-style-type: none"><li>• Allows for either multiplayer or singleplayer (player vs computer)</li><li>• Players need to connect 3 squares without using the middle square</li><li>• Winner is automatically determined by the algorithm</li><li>• Developed using the Model, View, Controller (MVC) design pattern</li></ul>	