Preet Shah
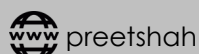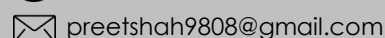
2+ years of Software experience through internships and projects.
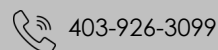
6 successfully completed work placements in Engineering profession.

- preetshah
- preetshah9808@gmail.com
- 403-926-3099
- Preet-Shah
- Preet-Shah

Relevant Skills

Languages:

Python, PHP, Java, C++, Golang, JavaScript, SQL, HTML5, CSS3

Frameworks:

Zend, Flask, Django, Hadoop, React, AngularJS, Bootstrap

Tools and Databases:

GitHub, Linux, Postman, Docker, AWS, GCP, Firebase, Hive, Vertica, Tableau, Looker, MySQL, Redis

Education

University of Waterloo

Final Year - Bachelor of Applied Science, Mechanical Engineering
Expected Graduation April 2021
GPA: 3.7/4

Relevant Courses

University of Waterloo: *ECE 406 - Algorithm Design and Analysis*

Harvard University: *CS50 - Introduction to Computer Science*

Udemy: *Data Structures and Algorithms*

Relevant Work Experience

reebee   Sept 2020 - Dec 2020
Backend Software Engineer
PHP, Python, Docker, AWS, Postman, MySQL

- **Redesigned backend login and authorization system, in PHP**, to allow Google OAuth contractor stakeholders to make API calls

- **Decreased latency of flyer responses by 25%** by caching data returned from API responses to **AWS Memcached**

- **Increased API response capacity by 2x** through the refactoring of **NGINX buffer size** configuration and limits

- **Improved scalability and search performance by 10%** by implementing logic to efficiently group items into categories within **MySQL database**

Wayfair LLC   Jan 2020 - Apr 2020
Data Engineer
Python, Apache Hadoop, BigQuery, Vertica, MySQL

- **Constructed ETL pipelines to transfer data from Vertica to BigQuery,** prioritizing speed of data transfer and filtering out excess data

- **Improved accuracy of attribution by 30%** by optimizing backend logic, in **Python**, based on new attribution models

- **Sped up failure detection time by 40%** through **Python application** that triggers email and slack alerts when a cronjob fails

- **Quickened analytics processing by 45%** by utilizing **MapReduce** functions to distribute data among **multiple nodes**

Formlabs   May 2019 - Aug 2019
Supply Chain Management
MySQL, VBA, Asana

- Queried cartridge data to determine **new cartridge chips result in a 25% lower chance of being disconnected** from printer

- **Implemented VBA program to perform statistics** on high volume mass production data and single out discrepancies

Featured Projects

Online Multiplayer Card Game   coup-c4862.web.app/
JavaScript, React, Firebase

- Built a web based version of the highly popular card game Coup

- **60+ active users**, spanning 5 countries, with **over 100 games played**

- **Implemented caching feature using React Hooks to decrease latency** for in-game transactions such as card updating

- **Enhanced scalability of platform by distributing load** to multiple **Firebase instances** while maintaining performance

- **Developed multithreaded algorithm for complex state changes**, focusing on reliability, speed, and overall user experience

Stewart Gough Platform
Arduino, C

- **Built an autonomous 6-axis system** that can maneuver a marble through a maze in under 5 seconds

- Allowed for precise servo rotations by **implementing inverse kinematics algorithm in C** and transferring to Arduino code

- **Programmed light sensors to trigger servo activation** to move the marble if stuck