




Preet Shah


2+ years of Software experience through internships and projects

 preetshah

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Education

University of Waterloo

Final Year - Bachelor of Applied Science, Mechanical Engineering
Expected Graduation April 2021

Relevant Courses

University of Waterloo

ECE 406 - Algorithm Design and Analysis

Harvard University

CS50 - Introduction to Computer Science

Udemy

Data Structures and Algorithms

Relevant Skills

Languages:

Python, SQL, PHP, Go, Java, C, C++, JavaScript, MATLAB, HTML5, CSS, VBA

Frameworks:

React, Zend, AngularJS, BootStrap, Flask, Django, Hadoop

Tools and Databases:

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

Work Experience

reebee Inc

Sept 2020 - Dec 2020

Backend Software Engineer

PHP, Python, Go, Docker, AWS, Postman, MySQL, Jira

- * Decreased QA **idle time by 30%** by allowing automated calls to new API endpoints to query database instead of manual calls
- * Allowed analytics team to **view 5x the data** on flyers by building new backend tools to efficiently collect and store the data
- * Increased API **response size by 2x** through the refactoring of NGINX configurations and updating buffer sizes
- * Redesigned login system and authorization procedure for contractor stakeholders to allow API calls from third party sources

Wayfair LLC

Jan 2020 - Apr 2020

Data Analyst and Engineer

Python, Apache Hadoop, Vertica, MySQL

- * Quickened response time to **view marketing data by 25%** by constructing new ETL pipelines, and filtering out excess data
- * Improved **accuracy of attribution by 30%** through the optimization of backend logic based on new attribution models
- * Sped up the **response time by 40%** of detecting failures by triggering email and slack alerts when a cronjob fails
- * Built mobile data storage system for Data Science team to use while developing new model to predict uninstall of app

Formlabs

May 2019 - Aug 2019

Supply Chain Management

MySQL, VBA, Asana

- * Determined **reduction in disconnect rates by 25%** of new cartridges by comparing and analyzing data between all cartridges
- * 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
- * Optimized backend database system to manage over **50k requests per day** at peak usage
- * **60+ active users**, spanning 5 countries, with **over 100 games played**
- * Increased capacity of **games playable per day by 10x** by implementing load balancing system and saving additional costs
- * Responsible for back end infrastructure design and development, front end development, code reviews, and QA post release

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