Preet Shah

2+ years of Software experience through internships and projects

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Education

University of Waterloo
4th 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

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Work Experience

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

* Decreased QA **idle time by 30%** by allowing automated calls to new API endpoints to query database instead of manual calls
* Redesigned login system and authorization procedure for contractor stakeholders to allow API calls from third party sources
* 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

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

* Queried and analyzed data on new cartridges to determine a **reduction in disconnect rates by 25%**
* 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

* Worked with five members to build a web based version of Coup
* **60+ active users**, spanning 5 countries, with **over 100 games played**
* Experienced full software development life cycle, including design, development, code reviews, testing, and QA
* Allowed for quicker response time to app by integrating non-relational database to store and manage gameplay data
* Increased number of **games playable per day by 10x** by implementing load balancing system and saving additional costs

Stewart Gough Platform
Arduino, C

* Worked with four team members to design and build a Stewart Gough platform that can autonomously navigate a marble through a maze
* Implemented algorithm to determine servo angles for any maze orientation based on inverse kinematics functions
* Programmed light sensors to trigger servo activation to move the marble if stuck