Hasan Zahid

Software Engineer

haszahid10@gmail.com
linkedin.com/in/haszahid/

EXPERIENCE

Foobe Inc, Annadale, VA — *Software Engineer*

Jul 2018 – Feb 2019

Technologies used: React-native, React, Javascript, Github, Firebase, Rest APIs

Used React-native to cut the work for frontend engineers by half and create a cross platform experience. Created reusable components for better project/code architecture . Implemented location based matching using firebase cloud functions from GCP. Used the NoSQL firebase realtime db to manage user profiles and used firebase storage to store additional user information. Coordinated software system installation and monitor libraries being used for security and standardized performance.

ISSI Global Software, Greenbelt, MD— *Intern Software Developer*

Jul 2017 – Sep 2017

Technologies used: Javascript, JQuery

Created a calendar program to manage tasks. Boosted productivity of the interns by 20%. Wrote functional and integration tests for components and small systems. Modified existing software to correct errors and upgrade to newer software.

EDUCATION

George Mason University, Fairfax, VA — *Bachelor of Science (B.S.) Information Technology*

Sep 2019 – Dec 2021

GPA: 3.5/4.0

Relevant Coursework: Data Structures and Algorithms, Django Web Programming, Database Programming (SQL & PL/SQL), Data Communications and Network Principles, Application Development in Cloud, Operating System Fundamentals, Project Management(Agile methodologies)

PROJECTS

Django Backend Project (School)
Technologies used: Django, Django-auth, Django-db, Django-rest-framework, Django templates, Django Views

Languages:

- Python
- Javascript
- Typescript
- Java
- SQL
- PL/SQL
- NoSQL

Framework & Libraries:

- NodeJS
- Express
- Django
- Django-Rest-framework
- React
- MongoDB
- SQLLite
- MySQL

Tools:

- Docker
- Docker-Compose
- Git
- Github
- Python & JS ORMs
- Nginx
- Postman
- Selenium
- Bash
- Linux (Ubuntu)

Extracurricular Activities:

- HoyaHacks Georgetown University, 2017

Created a **Django** application that gives users a mock e-commerce experience all inside a virtual python environment using **venv** for the course midterm. Implemented authentication and authorization using **Django auth** library. Used **Django database** library to create models and **ORM** to use them within views. Learned Django project structure and used third party packages for further functionalities. Created a **rest api** using **django rest-framework** Tested the API using built in API views from the rest-framework library.

Shopping Platform REST API (personal)
Technologies used: TypeScript, Nodejs, Express, BcryptJS, MySQL, TypeORM, JsonWebToken(JWT), Redis, Stripe, NodeMailer, faker, Docker, Github

Rest API to serve as the backend for a **react** frontend application for a fully fleshed out online shopping platform with creator (admin), seller (ambassador) and buyers. **Authentication using JWT** and scope-based authorization Creating a middleware to check authentication status (DRY methodology). Generating fake data and seeding data using faker. **Caching** with **Redis** for faster loading of products. Payment processing done by Stripe and confirmation email to users using NodeMailer.

AWS Chatbot project (school)
Technologies used: Lambda, S3, DynamoDB, Cloudwatch

Built a chatbot application that can be used for booking flights as midterm of my **cloud development** course. Used **AWS Lambda** to do serverless computing and set up a cloud function that managed the internal logic of the chatbot. Saved user information into **Dynamodb** for further processing and also stored additional flights/user booking metadata into **S3**. Used Cloudwatch to monitor logs during the application development process and onwards.

MYSQL & PL/SQL oracle 12g project (school)
Technologies used: Mysql, PL/SQL, MySQL server

Incremental course wide project that was used to explore database design and database programming in SQL developer/ mysql server. Created complex queries that provide meaningful data to be used in an application. Developed functions, stored procedures and views. Learned how to create packages and triggers using PL/SQL programming. Conceptualized database design and created tables according to said design.

- Bitcamp UMD Hacks, 2017
- Club: NVCC CodeSociety VP