

NISARG SHAH

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SKILLS

Languages: Python, JavaScript/TypeScript, C/C++, Java, SQL, Bash

Tools: AWS, React, NodeJS, Django, Flask, Docker, Kubernetes

WORK EXPERIENCE

LoanGlide – Folsom, CA, USA | Software Engineering Intern

(Sept 2020 - Present)

- Designed and developed a robust system critical error tracking system using AWS lambda, MongoDB and Nodejs which continuously monitors all microservice logs and reports any critical errors that impacts core functionality.
- Developed a new configuration driven React app, allowing for modification of the application flow by non-technical staff and without any code changes.
- Designed and developed a webhook system using AWS lambda and NodeJS which notifies partners when events they have subscribed to, occur.
- Developed a machine learning model using Random Forest and XGBoost to determine loan applicant reliability.

IBM – Markham, ON, Canada | Software Engineering Intern

(Jan 2020 – Sept 2020)

- Led design and development of performance features in NodeJS, for the platform authentication microservice leading to a decrease of 50% for sign-in times and access times for key routes.
- Developed a REST API in NodeJS, which acts as a middleware for all platform microservices.
- Developed and maintained various microservices using Python, JavaScript/TypeScript, Ruby and Elixir.

PROJECTS

Formula Electric Design Team

(Oct 2019 – Present)

Designing and Building an Electric Car for Competition

- Led design and development of firmware in C for regenerative braking resulting in a 7% decrease in overall car power usage.
- Developed firmware using C to monitor all car system information and output debug information to an admin console.

Price Watcher

(Nov 2020)

- Developed a Python program which runs as a batch job and monitors price of products across Amazon and Newegg and keeps track of weekly, monthly and all-time low prices.
- Integrated a notification system which notifies users through text and/or email when an item hits weekly/monthly/all time low prices.

Sorting Algorithm Visualizer

(Apr 2020)

- Developed a Flask web app to aid in the visualization of common sorting algorithms.
- Displays a step-by-step visual animation on how arrays are sorted in popular algorithms.

EDUCATION

University of Waterloo – Waterloo, ON | 3.90 GPA

(September 2019 – May 2024)

Honours Bachelor in Computer Engineering, BAsC