

Sina Nikmaram

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Technical Skills

Languages: TypeScript, Python, Go

Front End: React, Redux, Sass, Next.js

API Frameworks: Express.js, Flask, Gin

Databases: MySQL, PostgreSQL, DB2, MongoDB

Containerization: Docker, Kubernetes, OpenShift

Cloud: IBM Cloud, AWS, GCP

Professional Experience

IBM | Technology Engineer

2022

- Lead Engineer on an engagement with a multi-national financial client, in collaboration with IBM Research, to dynamically graph the weighted relation between sectors and industries over various periods of time.
- Co-led an engagement with a publicly-listed utility provider looking to reduce service down-time by leveraging Maximo's Asset Performance Monitoring (APM) solution, and real-time sensor data, to predict the probability of failure in circuit breakers.
- Awarded Star Performer for the Client Engineering team at IBM's Technology Academy for Sustainability 2022.

IBM | Associate Cloud Engineer

2021

- Deployed several IBM MQ queue managers, on an internet-deprived Google GKE cluster, with a multi-national financial client that was looking to improve the resiliency of their services by modernizing their messaging workloads to the cloud.
- Spoke at several virtual events to upskill dozens of engineers, internally, on the technical deployment and business value of IBM's Maximo Application Suite.
- Refactored a command-line tool using Python, shell scripts, and Docker containers to automate the installation of IBM's Cloud Pak for Data on OpenShift clusters, which resulted in improved readability, modularity, and developer productivity.

Hack Reactor | Software Engineering Resident

2020

- Provided technical mentorship to 100+ students nationally, and guided them through learning technologies such as JavaScript, React, Express.js, MySQL, and MongoDB.
- Organized 3+ whiteboarding/tutoring sessions with students weekly. These sessions covered a range of full-stack web development concepts from primitive data types to integrations with 3rd party API's.

Software Engineering Applications

Pychain | Python, Flask

- Created a simple blockchain with all necessary components, including a transaction pool, wallets, blocks, miners, nodes, and an account model to persist transactions on the blockchain.
- Configured peer-to-peer networking by implementing sockets, a message-based protocol, and a Flask API that enables communication between nodes distributed across the network.
- Implemented a Proof-of-Stake consensus mechanism to prevent malicious actors from undermining the honest validators in the network. This was achieved by creating a pseudo-random lottery where the winning validator forges the next block.

Education

Red Hat | Red Hat Certified Specialist in Containers and Kubernetes

2021

Hack Reactor | Software Engineering

2020

Fairleigh Dickinson University | B.S. in Marketing and Minor in Communications

2019