Sina Nikmaram

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Technical Skills

Languages: TypeScript, Python, Go

Front-End: React, Redux, Sass, Bootstrap

Back-End: Node.js, Express.js, Flask, SQL, NoSQL

Testing: Mocha, Chai, Jest

Containerization: Docker, Kubernetes, OpenShift

Cloud: AWS, IBM Cloud

Professional Experience

IBM | *Cloud Engineer*   *2021*

- Constructed the environment for IBM's Maximo Visual Inspection as part of a Proof-of-Concept for telecommunications companies to operationalize AI-powered computer vision with images streamed from devices at the edge.
- Migrated an enterprise messaging service from a legacy mainframe to an OpenShift cluster by leveraging IBM's Cloud Pak for Integration to increase the maintainability and availability of dozens of queue managers.
- 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 weekly, covering a range of full-stack web development concepts.
- Collaborated with management to assess the readiness of potential students and developed curriculum aids to streamline student workflow.

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 sybil defense 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.

Neutrinos API | *Node.js, Express.js, PostgreSQL, Docker, AWS*

- Designed schemas for PostgreSQL, then conducted ETL on 5+ Gbs of legacy data within five minutes.
- Developed an optimized REST API capable of serving 1,200 requests per second while maintaining <10ms response times.
- Utilized Docker containers to streamline deployment to AWS and horizontally scaled the API across multiple EC2 instances to increase the throughput threshold by 300%.

Education and Certifications

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*