Anh K. Nguyen

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SKILLS

Languages: Python, Java, Go, SQL, JavaScript, TypeScript, HTML, CSS
Frameworks: Istio, Prometheus, Java Spring, Libsodium, Spark MLlib, React, Bootstrap, Angular, Node.js
Tools: Kubernetes, Docker, NGINX, Let's Encrypt, MongoDB, PostgresSQL, Redis, Cassandra, Apache Spark, Kafka, AWS EC2, Digital Ocean, Postman, Gitlab CI/CD, GitHub Actions, Sentry

EXPERIENCE

Uniphore, Palo Alto, CA
Software Engineer November 2020 – December 2021

- Utilized Apache Kafka to send real-time meeting audio to an Emotion Analysis API. Relayed metrics into Redis and pushed to UI via web-sockets. Written using Spring, Go, Redis, & Stomp.
- Created a webhook adapter in JavaSpring to connect the Transcripts API of a major telecom company to Uniphore's Real-Intent API, complemented with a Python CI test suite.
- Implemented Horizontal Pod Autoscaling to replicate Kubernetes pods based on http traffic. Scraped container metrics using Istio sidecar proxies and Prometheus to determine scale factor.
- Utilized Apache Spark to partition bigdata to multiple worker nodes, increasing ML training throughput. Configured Spark libraries to run on GPU with Nvidia's RAPIDS Platform, further increasing data processing speeds and improving cost efficiency.
- Developed a Rest API to track sale opportunities and engagement levels between companies.
- Created CI pipelines with integration tests and CD pipelines to deploy docker images to a container registry for docker-compose deployments.

Intel Corporation, Folsom, CA
Software Engineering Intern November 2019 – May 2020

- Built an interactive web app using Flask and Bootstrap that showcases performance advantages of Intel Optane Memory. Resulted in a partnership with a Major Company to model their distributed storage system with the optimal configuration of Intel SSD's.
- Added a feature to an internal web app that allows users to download graphs by rasterizing the SVG's generated by D3.js to .PNG format. Implemented in Angular.js.
- Developed a plugin to automatically provision any Python version and their necessary dependencies onto air-gapped servers.

Intel Corporation, Folsom, CA
Automation Engineering Intern May 2019 – November 2019

- Created a development plan for employing ML to detect faulty SSD firmware using Docker, TensorFlow, and MongoDB. Architected DB schema that indexes SSD performance metrics.
- Developed a framework using Python that provisions and deploys Intel SSDs, saving over 25 employee-hours per week.

Printronix AutoID, Brea, CA February 2018 – August 2018
Software Engineering Intern

- Developed a metrics aggregator for thermal printers to quickly analyze performance fluctuations resulting from feature changes and refactored schema of thermal output data.

Cal Poly, Pomona, CA - Professor Hao Ji July 2017 – January 2018
Machine Learning Research Intern

- Created a convolutional neural network to develop a real-time facial recognition system that detects expressions of drowsiness. Implemented using Python and TensorFlow.

PROJECTS

Personal Projects anhknguyen.com

- Developed several web apps using React, JavaScript, Bootstrap, and Go.
- Dockerized all projects, set up CI/CD pipelines to build and deploy. Hosted on DigitalOcean.
- Configured server to host multiple subdomains with NGINX server blocks to expose multiple Docker containers in the backend. Wildcard SSL certificate provisioned with Let's Encrypt.

EDUCATION

California State Polytechnic University - Pomona May 2020
B.S. Computer Science