

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, PostgreSQL, Redis, Apache Spark, Kafka, AWS EC2, Cloudflare Serverless, Digital Ocean, Postman, Gitlab CI/CD, GitHub Actions

EXPERIENCE

Uniphore, Palo Alto, CA

Software Developer

November 2019 – May 2020

- Sole developer of a webhook adapter to connect a Major Telecom Company's CallCenter API to Uniphore's ML Analysis API. Implemented using JavaSpring, Python, with Libsodium encryption.
- Implemented Horizontal Pod Autoscaling to adjust pod replicas based on network http traffic. Deployed Istio's Envoy sidecar proxies to interpret network connections between microservices. Scraped metrics from Docker containers with Prometheus to scale pod replicas.
- Utilized Apache Spark to partition large-scale audio data to multiple worker nodes, increasing ML throughput. Configured Spark libraries to run on GPU with Nvidia's RAPIDS Platform, further increasing data processing speeds and improving cost efficiency.
- Created CI pipelines with integration testing and CD pipelines to deploy docker images to a container registry for docker-compose deployments.
- Developed Rest API to track sales opportunities and levels of engagement between companies.
- Utilized Apache Kafka to send real-time and batch data to Emotion Analysis API. Stored emotion metrics into Cassandra and Redis.

Intel, Folsom, CA

Software Developer 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.

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.

Printronic AutoID, Brea, CA

Software Engineering Intern

February 2018 – August 2018

- 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

Machine Learning Research Intern

July 2017 – January 2018

- 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

B.S. Computer Science

May 2020