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EXPERIENCE

Software Development Engineer, Amazon EconTech. March 2020 – Present
(Python, Bash, TypeScript, Java)

Multidisciplinary team of Software Engineers, Data Scientists, and Economists. Built machine learning systems for scale.

Designed and implemented an inference pipeline processing billions of data points. Collaborated with Scientists to put their experiments into production systems.

Maintained an API service that served cost predictions. Worked with Engineers on other teams to get requirements and Service-level agreements (SLA).

Software Development Engineer, AWS Thinkbox. June 2019 – March 2020
(Python, Bash, PowerShell, C#)

Team's focus was on Deadline, a render farm management tool customers can use for their cloud, on-premise, or hybrid farms.

Added Amazon DocumentDB support to Deadline. Upgraded dependencies, refactored database layer, and added new unit & integration tests.

Helped maintain a Conda build farm for packages, tools, & products. For example, a simple task would be updating Numpy's version. An involved task would be adding openssh-portable to our repository.

EDUCATION

Simon Fraser University, 2012 – 2019
B.S. in Mathematics and Computer Science

PROJECTS

API Forward to Email – Python, TypeScript
github.com/alexhnguyen/ApiForwardEmail
I was curious how Plaid implemented the "apply by API" service so I did my own implementation

Docker Image Build Pipeline – Python, Bash, TypeScript
github.com/alexhnguyen/BuildDockerImageCdk
Build a Docker image on AWS CodePipeline and save to Amazon ECR

Twitter Website Cache – Python, VueJS (HTML, CSS, JavaScript)
github.com/alexhnguyen/CacheTwitterCdk & github.com/alexhnguyen/display-cache-website
Cache's a Twitter user's tweets and displays them on a webpage (work in progress)

Face Swap – Python, OpenCV
github.com/alexhnguyen/MoreMori
Swapped faces, real-time, with our professor's face