Danny Pham

Software Engineer

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Engineer developing data backed solutions that drive quantifiable impact and results.

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

B.S. Computer Science | September 2016 - June 2020

- GPA: 3.85/4.00 (Cum laude)

WORK EXPERIENCE

AMAZON / RING

Software Development Engineer | August 2020 - Present

- Designed and implemented APIs for universal schedules service to allow neighbors to control a variety of settings including lights, motion, and chimes
- Drafted a change management template to define steps for SREs to follow during application deployment to mitigate risk of human error

FLEXPORT

Software Engineer Intern | January 2020 - April 2020

- Automated digitization of all documents sent by carriers by implementing an email processor to save roughly 40 hours/week in operational time
- Increased accuracy of extracted carrier contract data by 30% by analyzing data to establish a threshold to detect unexpected price fluctuations
- Integrated pattern recognition into contract parsing algorithm to detect errors in 2% of existing carrier contracts which resulted in an expected net revenue increase of $20 million
- Developed a new workflow queue filled with self-serve tools to boost productivity of non-developers by 40%

NASA JET PROPULSION LABORATORY

Flight Software Engineer Intern | September 2019 - December 2019

- Implemented validation tests to verify execution of rover command sequences for the Mars 2020 rover
- Integrated surface flight software into a web application to allow scientists to visualize rover mobility
- Increased accuracy of rover position and altitude estimates by 7% by integrating 3D meshes generated by stereo imagery
- Introduced fuzz testing to surface flight software which led to the discovery of 15+ fatal bugs

AMAZON

Software Development Engineer Intern | June 2020 - September 2020

- Delivered catalog of 120+ eBooks with translations to 500+ students in India and Brazil to support their learning
- Designed a RPC service to generate translation files for eBooks to allow Kindles to perform translations offline
- Minimized time needed to generate translation files for the digital catalog by 72% (45 mins to 12 mins) by using threads to perform operations in batches
- Built new API for Kindles to support local translation files and process them to display translations in 0.6 secs
- Expanded service to support 7 additional languages and researched into using a ML model to perform translations on the fly

SKILLS

- **Languages:** Python, Golang, Java, JavaScript, TypeScript, Ruby, SQL
- **Frameworks:** Flask, React, Express, Socket.io, GraphQL, Rails, Protocol Buffers, Kafka, PostgreSQL
- **Tools:** Version Control (Git), gRPC, Docker, Linux, AWS (CDK, ECS, EC2, DynamoDB, Kinesis, Lamba)