Danny Pham

Software Engineer / Los Angeles, CA

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EXPERIENCE

AMAZON
Los Angeles, CA
08/2020 - Present
Software Development Engineer

- Drove migration from Postgres to DynamoDB to use a single table design in order to reduce 2 database calls to 1, resulted in approximately 45% less latency for upstream services
- Led the redesign of motion zones for camera devices by defining the strategy to integrate new requirements, redesigning the schema, implementing backwards compatibility, and handling data backfills
- Implemented a universal device model to unify 70+ Ring device types to replace repetitive and duplicative code changes with configuration-driven code
- Designed and implemented APIs to support universal schedules, a service that allows neighbors to create custom schedules to control settings related to lights, motion and chimes

FLEXPORT
San Francisco, CA
01/2020 - 04/2020
Software Engineer Intern

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

NASA JET PROPULSION LABORATORY (JPL)
Pasadena, CA
09/2019 - 12/2019
Flight Software Engineer Intern

- Integrated surface flight software into a web application to allow scientists to visualize rover mobility
- Introduced fuzz testing into the surface flight software, resulting in the discovery of 15+ fatal bugs
- Increased accuracy of rover position and altitude estimates by roughly 7% by integrating 3D meshes generated by stereo imagery

AMAZON
Seattle, WA
06/2019 - 09/2019
Software Development Engineer Intern

- Designed a RPC service to generate translation files for eBooks to allow Kindles to perform translations offline
- Minimized time to generate translation files by 72% by using threads and performing operations in batches
- Built a new API for Kindles to support local translation files and fetch and display translations within 0.6 seconds

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE
Irvine, CA
09/2016 - 06/2020
B.S. Computer Science, Cum Laude Honors

SKILLS

- **Proficient with:** Python, Go, Java, Ruby, JavaScript, TypeScript, React.js, Node.js, Flask, SQL, noSQL, Git, AWS (EC2, DynamoDB, Kinesis, Lambda, SNS, SQS), Kafka, Protocol Buffers, Agile Development, Linux

- **Familiar with:** GraphQL, Kubernetes, Docker