

Danny Pham

(714) 383 - 5113 • phamhdanny@outlook.com • dannyhp.com • linkedin.com/in/dannyhp1 • github.com/dannyhp1

EDUCATION

University of California, Irvine

Bachelor of Science in Computer Science, GPA: 3.85/4.00

Irvine, CA

Sep 2016 - Jun 2020

EXPERIENCE

Amazon / Ring

Software Development Engineer

Santa Monica, CA

Aug 2020 - Present

- Design and implement APIs for universal schedules service to allow neighbors to control a variety of settings including lights, motion, and chimes.
- Draft a change management template that defines steps for SREs to follow during service deployment process to mitigate risk of human error resulting in rollbacks.

Flexport

Software Engineer Intern

San Francisco, CA

Jan 2020 - Apr 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 new workflow queue filled with self-serve tools to boost productivity of non-developers by 40%.

NASA Jet Propulsion Laboratory

Flight Software Engineer Intern

Pasadena, CA

Sep 2019 - Dec 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 discover of 15+ fatal bugs.

Amazon

Software Development Engineer Intern

Seattle, WA

Jun 2019 - Sep 2019

- Delivered digital catalog of over 120 eBooks with translations to over 500 student 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 within 0.6 seconds.

Siemens Digital Industries Software

Software Engineer Intern

Cypress, CA

Jan 2019 - May 2019

- Developed an inspection tool that consolidated multiple internal services to allow users to select and execute a range of test suites on CAD files.

PROJECTS

Code with Me

codewithme.dannyhp.com

- Deployed a collaborative coding platform on AWS EC2 to allow users to join coding rooms and edit code in real-time.
- Designed RESTful API for a source code executor to execute Python source code and transmit results to the client.

SKILLS

Languages: Python, Go, Java, TypeScript, JavaScript, Ruby on Rails, SQL

Frameworks: Flask, React, Express, Socket.io, GraphQL, Protocol Buffers, Selenium, PostgreSQL, Kafka

Tools: Git, gRPC, Docker, Linux, Agile, CI/CD, AWS (ECS, EC2, DynamoDB, Kinesis, Lambda)