

# 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, SQL

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

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