

Danny Pham

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EDUCATION

University of California, Irvine

Bachelor of Science, Computer Science

- Cumulative GPA: 3.851/4.00 (Cum Laude honors)

Irvine, CA

September 2016 - June 2020

EXPERIENCE

Software Engineer Intern

Flexport | San Francisco, CA

January 2020 - April 2020

- Built an email processor to automate the digitization of documents; saved 40 hours/week in operational time.
- Implemented data validation tests to increase the accuracy of extracted data from carrier contracts by 72%.
- Enhanced parsing algorithm by integrating pattern recognition on incoming carrier contracts; detected errors in 2% of new contracts.
- Launched a new workflow queue and dashboard filled with self-serve tools to increase procurement operations' productivity by 40%.

Flight Software Engineer Intern

NASA Jet Propulsion Laboratory | Pasadena, CA

September 2019 - December 2019

- Developed a web application with surface flight software to perform and visualize nominal rover movement on the Mars 2020 rover.
- Increased accuracy of position and altitude calculations during simulation by integrating 3D meshes generated from stereo imagery collected by the rover.
- Discovered and diagnosed over 20 command sequences that caused failures by executing fuzz tests daily.

Software Development Engineer Intern

Amazon | Seattle, WA

June 2019 - September 2019

- Developed remote procedure call to generate offline translation files to allow Kindles to perform text translations without internet.
- Reduced time to generate translation files for the entire digital catalog by 73.33% (45 minutes to 12 minutes) by using threads to retrieve and store translations in batches.
- Built new Kindle API to support local translation files; increased speed to fetch and display results by 32%.

Software Engineer Intern

Siemens Digital Industries Software | Cypress, CA

January 2019 - May 2019

- Launched an inspection tool that utilizes multiple internal services to allow users to select and execute different tests on CAD files.
- Eliminated defects in legacy tools by restructuring library content and migrating over 20 legacy constructs.

Software Engineer Intern

Spetcial | Sunnyvale, CA

October 2018 - December 2018

- Led frontend infrastructure overhaul by rolling out new modular React components to be utilized throughout the web application.
- Enhanced application's page loading speed by 42% by implementing resource splitting and lazy loading.

PROJECTS

Coderpad

Technologies used: Python, Flask, Docker, AWS, React.js

- Deployed a collaborative coding platform to allow users to simultaneously write, edit, and execute code.
- Built a source code executor API to compile and execute Python, Java, and C++ source code and transmit results of the compiled code along with any build and runtime errors.

Text Drive

Technologies used: Python, Flask, MySQL, AWS, React.js

- Designed a text storage application for users to create, upload, and share snippets of text or code through uniquely generated links.
- Configured backend to efficiently generate a UUID for each text snippet to avoid duplication and collisions; stored to optimally store and retrieve thousands of records.

SKILLS

Languages

Python, Java, Go, JavaScript, SQL, Ruby, C++

Technologies

React.js, Node.js, GraphQL, Spring, Rails, Flask, JUnit, Mockito, pytest, PyTorch, Numpy, Matplotlib

Tools / Other

Git, Docker, Kubernetes, AWS, Linux