Danny Pham

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EDUCATION

University of California, Irvine   Irvine, CA
Bachelor of Science in Computer Science, GPA: 3.85/4.00   Sep 2016 – Jun 2020

SKILLS

Languages: Python, Go, Java, Ruby on Rails, JavaScript, SQL, NoSQL
Technologies: React.js, Node.js, GraphQL, Protocol Buffers, Flask, JUnit, Mockito, pytest
Tools & Other: Git, gRPC, Docker, Kubernetes, AWS, Linux, Agile (Scrum), CI/CD

EXPERIENCE

Amazon   Santa Monica, CA
Software Development Engineer   Aug 2020 – Present

Flexport   San Francisco, CA
Software Engineer Intern   Jan 2020 – Apr 2020
- Delivered a project end-to-end that automated digitization of documents sent by carriers to save roughly 40 hours/week in operational time.
- Implemented data validation tests by establishing a threshold for unexpected price fluctuations to increase the accuracy of extracted carrier contract data by 70%.
- Integrated pattern recognition into contract parsing algorithm which resulted in detecting errors in 2% of existing carrier contracts and a net revenue increase of $20 million.
- Developed and launched a new workflow queue filled with self-serve tools to create a productivity increase for non-developers by 40%.

NASA Jet Propulsion Laboratory   Pasadena, CA
Flight Software Engineer Intern   Sep 2019 – Dec 2019
- Developed flight-software-in-the-loop simulation for predicting, validating, and visualizing execution of rover command sequences before uplink to Mars.
- Integrated surface flight software into a web application to allow scientists to perform simulations and visualize rover mobility.
- Increased accuracy of rover position and altitude estimates by 7.5% by integrating 3D meshes generated by stereo imagery.
- Introduced fuzzing which led to the discovery of 15+ fatal bugs.

Amazon   Seattle, WA
Software Development Engineer Intern   Jun 2019 – Sep 2019
- Developed a remote procedure call service to generate translation files to allow Kindles to perform translations offline.
- Minimized time needed to generate translation files for the digital catalog by 73.33% (45 mins to 12 mins) by using threads to retrieve and store translations in batches.
- Delivered digital catalog of 120+ eBooks with translations to 500+ students in areas where internet connectivity is unreliable (India and Brazil) to support their learning.
- Built new Kindle API to support local translation files and increased speed to fetch and display results by approximately 30%.

Siemens Digital Industries Software   Cypress, CA
Software Engineer Intern   Jan 2019 – May 2019
- Developed an inspection tool that utilizes multiple internal services to allow users to select and execute different tests on CAD files in a centralized location.
- Updated legacy tools by restructuring library content and migrating over 20 individual legacy constructs.

Spetcial   Sunnyvale, CA
Software Engineer Intern   Oct 2018 – Dec 2019
- Led frontend infrastructure overhaul by governing integration of new modular React components utilized throughout the web application.
- Enhanced application's page loading speed by roughly 40% by implementing resource splitting and lazy loading.