

QUOC NGUYEN

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EXPERIENCE

HP Inc., Software Engineer

TechPulse Team

August 2018 – Present

- Built a series of backend services to process configuration updates for thousands of HP devices
- Implemented redesign for roles-based access and policy control across TechPulse's platform
- Enforced security policies over services by leading and developing an audit logging library
- Optimized Elasticsearch service wrapper by restructuring queries and multi-tenancy indices
- Developed archetype library to provide base template for all future developing microservices
- Frequently used AWS cloud products: S3, SNS, SQS, DynamoDB, Elasticsearch, Cloudwatch
- Conducted technical interviews and mentored summer interns

United Airlines, Engineer Intern

Cabin Systems Department

May 2017 – August 2017

- Built web service using python to consume customer feedback data for sentiment analysis
- Utilized natural language processing (NLP) to perform text analysis on customer surveys
- Optimized data pipeline by processing raw sentiment data using a fixed schema

Avionics Department

January 2016 – May 2016

- Coordinated with Boeing to develop real-time embedded software for 787 aircraft
- Guided vendor's software design and requirements to ensure FAA regulations are met

TLV Advanced Software, Software QA Intern

Product QA Team

September 2015 – December 2015

- Optimized regression testing time by automating redundant manual test cases in regression suite
- Collaborated with cross-functional teams in Agile environment to deliver two major releases in 4 months

EDUCATION

The University of Houston

Bachelor of Science in Computer Science
Minor in Mathematics

December 2017

SKILLS

- **Languages:** Java, Python, Golang, C++, JavaScript, Swift, HTML/CSS, MySQL, NoSQL
- **Frameworks, Tools:** AWS, Spring, Django, MongoDB, Git, Docker, REST
- **Software:** Eclipse, Visual Studio, Sublime
- **Process:** Agile, Scrum, CI/CD

PERSONAL PROJECTS

- **Medical Surgery Haptic Simulation** – C#, Unity, Phantom Omni Haptic Device
 - Surgery simulation that renders force-feedback while traversing object through artery tubes
- **Internet of Things Pet Door** – Swift, Python, Flask, Raspberry Pi, IoT
 - Developed iOS client application that controls Raspberry Pi powered door via WiFi