Tommy Phat Nhu Truong

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Education

Rensselaer Polytechnic Institute   Troy, NY
Bachelor of Science in Computer Science   **May 2024**

Work Experience

Amazon - AWS Healthlake   May 2024 - Present
Software Development Engineer   Seattle, Washington
- Designed and implemented support for FHIR Subscriptions, allowing customers to receive real time push notifications for any HealthLake resources with a P90 latency of 10 seconds.
  Engineered a flexible resource metadata table used by various microservices to trigger workflows and handle customer's Subscription with DynamoDB and Lambda. Built custom validation and event-matching frameworks, enabling existing customers to use this feature without having to migrate into new datastores.
- Led delivery of the _include search parameter. Drove alignment with product and managers on requirements, created launch plan and scoped tasks to delegate to another engineer.
- Improved load testing framework and throttling strategy to always guarantee >99.9% service availability.

Amazon - AWS AppConfig   June 2023 - August 2023
Software Development Engineer Intern   Arlington, Virginia
- Built a automated migration tool to move 3900+ internal Amazon teams to AppConfig.
- Integrated a opt-in process in the customer's pipeline, allowing them to enable this feature with one line of code.
- Used AWS CloudFormation, S3 and Ruby to generate YAML templates from each customer configuration.
- Led review sessions with senior engineers to validate design document and project deliverable. This tool is expected to save almost 6000 engineering hours each year from maintaining the previous service.

Peapod Digital Labs   January 2023 - May 2023
iOS Developer Co-op   New York
- Developed PDL's grocery brands iOS application including Hannaford, Stop & Shop and Giant.
- Designed a reusable Toast View and used the Notification Observer to post and handle 20+ events across the application, then notifying the user once it occurs.
- Implemented a new ripeness selector on the product page by integrating a new GraphQL API into the codebase.
- Used Firebase Analytics to measure user actions, system events and errors for over 40 use cases.

FPT Software   June 2022 - August 2022
Software Development Engineer Intern   Hanoi, Vietnam
- Developed an iOS framework to detect and verify identification documents for FPT Cloud Vision.
- Integrated a NFC reader for the new national ID card, impacting over 100,000+ users in the first week.
- Verified if a document was fraudulent by sending the card's data to the server through POST requests.
- Created a vehicle damage detection application to predict a repair costs, winning 1st place out of 17 in the company yearly hackathon.

Projects

Shuttle Tracker | *Swift, SwiftUI, MapKit*   June 2021 – Present
- Developed a fully native iOS shuttle tracking application used by over 600 students.
- Used MapKit and CoreLocation to create embed maps into the user's views and added annotations and overlays.
- Implemented the information page, additional onboarding prompts and improved orientation support.
- Incentivized users to share location by calling the milestones API and displaying the amount of users contributing.
- Prototyped the watchOS app and Home Screen Widgets with WidgetKit, App Intents and SwiftUI.

Uni Friends | *Swift, AVFoundation, Firebase*   April 2021 – June 2021
- Developed and deployed an iOS application that integrates a music player with a built in timer to help students manage studying time. Used Google Firebase Storage to store songs and stream them on the device.

Technical Skills

Languages: Python, Swift, HTML, CSS, LaTeX, Java. Academic experience in C/C++
Frameworks: React, Node.js, REST API, Firebase, TailwindCSS, SwiftUI, UIKit
Developer Tools: AWS, Cloudformation, S3, DynamoDB, Step Functions, CloudWatch, AppConfig, Git, Agile, Xcode