ABOUT ME

Passionate, ambitious and gregarious. Experienced in mobile, SDK and back-end development

CONTACT

ishan.b@live.ca

(669) 302-0489

ishanbhutani.com

Seattle, WA

EDUCATION

SIMON FRASER UNIVERSITY

SCHOOL OF COMPUTING SCIENCE

Bachelor of Science

Sept 2016

ISHAN BHUTANI

SKILLS

Swift	C++	MVV/MVP/VIPER	REST API	CI/CD Pipeline	AWS	A/B Experimentation	Protocol Buffers
Objective-C	Python	SwiftUI	Combine	Microservices	Kafka	Back-end Development	JSON
Java	Bash	UIKit	iOS Frameworks	iOS App Development	Docker	Dependency Injection	XCTest & Swift Testing

EXPERIENCE

APPLE — SEATTLE, USA
Software Engineer — 06/2024 – Present
- iOS, macOS, tvOS, visionOS Full Stack Engineer in AI/ML Data Operations in charge of data collection for training Apple Machine Learning models
- Internal application running on AWS to annotate AI models and run user studies on new unreleased hardware within the company
    o Leading all technical direction of the client application on apple platforms
    o Architected and continuously supporting a new & unique communication protocol with a swift package library shared across multiple teams to run remote commands between multiple devices connected over the internet via a publish/subscribe server
    o Backend services utilizing AWS services: Lambda, S3, Secrets Manager, ECR & CloudWatch

TIKTOK — SEATTLE, USA
Software Engineer — 11/2023 – 05/2024
- iOS Engineer for the privacy communication SDK shared across all ByteDance applications
- Created an entirely new generic SDK in Objective-C along with Swift bindings to deliver privacy messaging to new and existing users
    o Created and managed the infrastructure of the new SDK; implemented the use across the original TikTok application as well as support upcoming ByteDance applications by heavily incorporating dependency injection

APPLE — CUPERTINO, USA
Software Engineer — 05/2020 – 11/2023
- iOS, watchOS and macOS Engineer for libraries, mobile & daemon development using Objective-C, C++, SQLite
    o Run-time maps logic integrating new backend microservices, GPS updates and iOS mobile application layer
    o Key features include: multi-stop navigation for driving, augmented reality for walking and notifications for transit
    o Contributed as an inventor of 3 successful patents for Apple Inc.
- Directly responsible individual for the architecture and implementation of protocols using Protocol Buffers to support run-time logic of exit notifications during transit and guidance instructions for AR Walking
    o Direct contact between project managers, designers, UI developers, systems engineers and backend services
- Extended database design to reduce turnaround time when diagnosing run-time issues reported by Apple Maps users
- Regularly created root-cause-analysis documents highlighting necessary improvements for mobile application performance issues such as: CPU usage, memory leaks, thermal issues, UI hangs and launch time delays

XMATTERS (Acquired by Everbridge) — VANCOUVER, CANADA
Java Developer — 06/2019 – 05/2020
- Back-end engineer solely responsible for all new and existing REST API requirements for my team
- Microservices development using Java, Junit, Postgres & Spring Boot with data ingestion using Kafka in a Docker centric environment
- Resolved many escalated issues affecting customers in production resulting in becoming the feature owner for the conversion and lifecycle between trial, free & paid versions of xMatters products
    o Stepped in to take sole engineering ownership of this feature which had no documentation or individual left in the engineering organization
    o Directly responsible individual for coordinating between marketing, customer success, engineering and quality assurance teams for all issues concerning new customer registration
    o Created and maintained new central documentation for future team members to learn from

HERE TECHNOLOGIES — VANCOUVER, CANADA
Software Engineer — 04/2017 – 05/2019
- iOS & Android SDK development including mapping, navigation and natural language processing for Android and iOS platforms using C++, Java, Objective-C, JNI & JUnit
    o Worked on transitioning of the HERE Mobile SDK to maintenance phase of its lifecycle
    o Prototyped several mobile apps using Google Wear OS, Amazon Alexa Skills Kit & Amazon Auto
- DevOps scripting for continuous integration and delivery using Python & Bash running on a Docker environment
    o Implemented validation & infrastructure scripts to support machine-learning NLP prototype models
    o Added support to provide binary deliverables of the HERE SDK in arm64
- Solely supported a customer on-site in Southeast Asia resulting in a successful contract worth several millions (USD)

PATENTS

US20220390242A1: Presenting Transit Alight Notifications

US20220392168A1: Presenting Labels in Augmented Reality

US20230366684A1: Multipoint routing & distribution of search results along route