Tanish Manku

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Technical Skills

Languages: Java, Javascript, Kotlin, Swift, TypeScript, Python, GLSL, C, C++, SQL, Bash, Lua, PHP
Mobile Development: Jetpack Compose, SwiftUI, UIKit, ROOM, CoreData, JUnit5, XCTest, Retrofit, Cocoapods
Web Development: HTML5, CSS3, ReactJS, NextJS, Tailwind CSS, WebGL, ThreeJS, NodeJS
Data and Back-end: PostgreSQL, Firebase, Redis, Google Cloud Platform, REST API, GraphQL, Docker, Pandas, NumPy

Work Experience

Design2Web   **Sep 2022 – May 2024**
Mobile App Developer   *Abbotsford, BC*
- Integrated In-App Purchases alongside a NodeJS backend for efficient licensing, raising app revenue by 50%
- Streamlined client website and workflow with modern tools like ReactJS and Tailwind, enhancing accessibility for disabled users and increasing user retention by 40%
- Coordinated 1-1 with clients and ensured smooth product deployment timeline by setting up Jira boards and Slack chats with regular meetings, achieving a 95% satisfaction rate

TD Bank   **May 2022 – Aug 2022**
Android App Developer Co-op   *Vancouver, BC*
- Fixed UI state bugs in TD Insurance Claims Tracker, enhancing UX and dropping crash rate by 3%
- Refactored monolithic app module into smaller build modules, reducing build and debugging times by 35%
- Improved navigation logic by writing a wrapper around the NavController, resulting in 5% APK size reduction

NETGEAR   **Jan 2021 – Aug 2021**
iOS App Developer Co-op   *Richmond, BC*
- Spearheaded project-wide test coverage in XCode, caught and fixed 2 critical bugs, decreased crash rate by 6%
- Upgraded user sign-on navigation flow using interactive guides, increasing user sign-on funnel traffic by 10%
- Wrote bash automation scripts to replace manual project configuration, making config updates 87% faster
- Introduced code style guidelines, Git pre-commit hooks, and CI/CD pipeline checks, improving code quality

Projects

Manku.dev - Portfolio Website | *React, Tailwind CSS, NodeJS, TypeScript*   **Present**
- Refactored React 12 Class Components to newer Functional Components for better declarative UI composition
- Reduced main thread input delay by 4ms per frame with Web Workers and OffscreenCanvas for parallel rendering

Cinebon - Plan Movies and Chat | *Firebase, React, Jetpack Compose, Tailwind CSS*   **2023**
- Led a team of 4, implemented TMDB API interface, foreground Android services, and real-time chats with Firebase
- Improved network performance by 60% by writing a cache for images and API responses

Logos Wallpaper - Infinite Canvas | *Jetpack Compose, ROOM, LVL, Material You*   **2023**
- Shipped a wallpaper generator app with support for up to 16K resolution using on-device rendering
- Implemented authorization and security checks using Google's License Verification Library

Smurf Config Editor - XDA Community | *Java, Kotlin, C, Makefile, Google Cloud Platform*   **2020**
- Deployed various flavors to Play Store for A/B testing, granting easy access to over 1000 users, rated 4.8 stars
- Migrated from Java Files API to Storage Access Framework to prevent IO failure in Android 12 and above

Education

Simon Fraser University   **Jan 2019 – Aug 2024**
Bachelor of Science in Computer Science
- Certified as a Google Developer Student Club Core Team Member
- Awarded Open Source Software Engagement Award