Tapan Thaker

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EXPERIENCE

Uber Technologies Inc   **Apr 2019 - Present**
Sr. Software Engineer, iOS Developer Experience   Sunnyvale, CA

- Responsible for building first-class tooling, services and infrastructure that are necessary to **support hundreds of iOS Developers** at Uber.
- I own and maintain one of the **largest Swift source code monorepo** in the entire industry with **7.5 million** Swift LOC

- **Experience in Compiler Technologies:**
    - I own the Local Build Times KPI at Uber and have delivered an immense improvement **reducing our P75 Build-Time** duration from **230s** down to **49s.** We saw an improved overall developer sentiment in our survey and a **2X increase** in build-debug integration cycles.:
    - Maintain a custom Swift / LLVM Toolchain:
        - Modify the Swift Compiler to skip rebuilding incremental builds when unnecessary
        - Further optimize the toolchain with Profile Guided Optimization
        - Further optimize the toolchain by using a faster malloc implementation.
        - Contribute to speedier LLVM / LLD and MOLD linker
        - **Collaboration with Apple** to resolve parallelism issues in LLBuild
    - iOS Symbol reordering to improve Application Launch performance
    - Protocol re-writing to improve Application Launch performance
    - **Ongoing**: Implement Profile Guided Optimization inside Go Compiler to improve performance of backend services

- **Experience in Developer Experience Technologies:**
    - Maintain the Bazel Build System & macOS CI infrastructure.
    - Custom Xcode Focused Project Generator that leverages Bazel's build cache and Xcode's Build-System.
    - VSCode + Swift LSP for iOS Development at Uber

- Other interesting side projects at Uber:
    - Enable Bazel's Remote Execution to better shard out CI builds.
    - Build iOS Source code on Linux to reduce costs. macOS instance costs 3X of the equivalent Linux Instance.
    - Hot Reload iOS Builds by using a custom linker

Uber Technologies Inc   **Nov 2017 - Apr 2019**
Software Engineer II, Rider Mobile Foundations   Bangalore, India

- Responsible for improving & maintaining the Uber's Rider Application which is used by millions of users.
- Provide a modern performant & reliable mobile app development platform that can scale for hundreds of feature engineers at Uber.

- We also executed many projects that improved the Pickups-Drop Offs experience for our customers
  For e.g. cache top 20% of the destinations that are used 80% of the time

Thoughtworks Technologies (India) Pvt Ltd   **Nov 2014 - Nov 2017**
Sr Consultant   Pune, India

- Spearheaded several product/projects for one of the largest **US Airline carriers**.
- Shared UI & business logic b/w iOS & Android by using [Calatrava (Javascript)](#) with the ability to migrate to native UX when performance was required.
- Developed a mobile focused backend in Java.
- Modularized the codebase to improve **Developer Productivity** and testability.

Motivation Labs / Softkraft Solutions / Religion Ltd   **Jun 2012 - Nov 2014**
Software Engineer   Mumbai, India

- Worked with several small companies in my initial years in a fast paced environment launching more than ten iOS / Android / Web / Backend applications and a few games such as [Ballpoint Universe - Infinite on Steam](#)

TECHNICAL SKILLS

- **Technical Skills**: **Xcode**, **Swift**, **Objective-C**, Rust, **Linkers**, Compilers, Compiler Optimizations, **Java**, **Python**, **Build Systems**, LLBuild, **Bazel Build System**, **Buck Build System**, **Remote Execution**, **CI**, **Jenkins**, **BuildKite**.

EDUCATION

Terna Engineering College   **Jun 2008 - May 2012**
Bachelor of Engineering in Computer Science; Mumbai University   Mumbai, India