Tejas Mehta

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Education

Georgia Institute of Technology | Atlanta, GA   *August 2022 – May 2026*
Bachelor of Science in Computer Science

Experience

Cloudflare - R2 Storage Team   *May – August 2022*
Software Engineer Intern - Full Time   Remote, NJ
- Implemented an automatic content-type detector for uploaded files that is utilized in ~4M requests/day.
- Developed an internal storage access tracing solution for trust & safety investigations.
- Utilized TypeScript, C++, Go, Cloudflare Workers, and Cap'n Proto in the storage tracing tool & content-type detector.
- Closed ~10 JIRA tickets implementing functionality enhancements in the production API & runtime environments

Ion Weather Research   *November 2019 – May 2022*
Software Engineer - Part Time   Denville, NJ
- Improved & expanded the main system (Java), decreasing error occurrence by ~50%
- Worked on a large migration in backend systems, which required building an automatic report splitter & formatter
- Split a monolithic project into smaller services allowing future changes to be easily scoped, implemented, and tested

Projects

cClip (website: cclip.app) | Dart, Java, Swift, Rust, TypeScript, Firebase, Flutter
- Created an end-to-end encrypted cross-platform real-time file, image, and text sync application
- Available as a mobile application, electron or web application (Windows & Linux), and macOS native application
- Utilizes Flutter for mobile + web, Swift & Appkit for macOS, TypeScript on Cloudflare Workers for the API, and Rust with FFI for the WebRTC direct transfer (Airdrop-style peer-to-peer file sharing) implementation
- Created a custom usage-based billing implementation with Stripe, RevenueCat, Cloudflare Workers, and Firebase

dargon2 | Dart, Flutter, FFI, C interop
- Wrote an open-source plugin to implement Argon2 password hashing functionality in Dart & Flutter applications
- Available for all Flutter & Dart nxative platforms (Web, iOS, Android, macOS, Windows, Linux)
- Utilizes Dart's FFI layer to interact with C methods per platform

Argon2Swift | Swift, CocoaPods, Swift Package Manager (SPM), C interop
- Built an open-source plugin to provide safe Argon2 password hashing functionality in Swift applications
- Provided a safe abstraction over manual memory allocation through a Swift-native wrapper
- Written around the C reference implementation using Swift's native C interoperability

xotp | Rust
- Open-source package on crates.io that provides HOTP & TOTP functionality
- Utilized bitwise operations to implement OTP generation over the SHA hashing algorithm

Organizations

FIRST Robotics | Roxbury, NJ   *October 2016 – May 2022*
- Head programmer, captain, and founding member of First Tech Challenge (FTC) Team 11253.
- Built real-time cloud-based mobile application to aggregate scouring & scoring data at competitions to aid with playoff team selection. Currently has ~2k users across 250 registered teams.
- Created an open-source three-wheel localization algorithm to aid all FTC teams in autonomous position tracking

Awards

Winner (1 of 300 internationally) – WWDC21 Swift Student Challenge by Apple - June 2021
1st Place Winner – makeSPP (hackathon) @ St. Peters Prep High School - April 2019
1st Place Winner – hackMCST (hackathon) @ Morris County School of Technology - October 2019
2nd Place Winner – pitchNJ (pitch competition) @ Fairleigh Dickinson University - February 2020

Skills

Languages (Programmed): Rust, Dart, Java, Swift, TypeScript, JavaScript, C++, Go
Frameworks: Flutter, iOS (UIKit), Android, macOS (AppKit), Node.js
Technologies: Cloudflare (Workers, Pages, R2, KV, Zero Trust), Firebase (Auth, DB, Messaging), Git, Postgres
Languages (Spoken): English (native), Gujarati (fluent)