

Tejas Mehta

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Education

Georgia Institute of Technology | Atlanta, GA *Expected Graduation May 2025*
GPA 4.0/4.0 | Bachelor of Science in Computer Science | Intelligence & Systems Architecture
Activities: Venture Capital Club, Startup Exchange

County College of Morris | Randolph, NJ *December 2021 - May 2022*
Dual Enrollment | GPA 4.0/4.0 | Dean's Honor List
Courses: Data Structures & Algorithms, Computer Architecture & Assembly Lang, Discrete Mathematics, Linear Algebra

Experience

Cloudflare - R2 Storage Team *May 2022 – August 2022*
Software Engineer Intern - Full Time Remote

- 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

Freelance Application Development *January 2020 - Present*
Software Engineer - Part Time Remote

- Shipped 30+ cross-platform mobile applications with API, database, and real-time notification integrations
- Integrated modern state management paradigms (BLoC, Redux) to build reactive and efficient Flutter applications
- Attained and maintained a 5 star rating for exceptional service, insight and turnaround

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

Personal 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 with ~350 users
- 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, Swift, JavaScript, C interop

- Wrote an open-source plugin to implement Argon2 password hashing functionality in Dart & Flutter applications
- Available for all Flutter & Dart native platforms (Web, iOS, Android, macOS, Windows, Linux)
- Recognized as the official plugin for Argon2 password hashing in Dart & Flutter Applications

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

Organizations

FIRST Robotics | Roxbury, NJ *October 2016 – May 2022*

- Head programmer, captain, and founding member of First Tech Challenge (FTC) Team 11253
- Built a 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) – Apple WWDC21 Swift Student Challenge *June 2021*

1st Place Winner – hackMCST (hackathon) @ Morris County School of Technology *October 2019*

1st Place Winner – makeSPP (hackathon) @ St. Peters Prep High School *April 2019*

Skills

Languages (Proficient): Rust, Dart, Java, Swift, TypeScript, JavaScript, Go, C, C++

Frameworks: Flutter, iOS (UIKit), Android, macOS (AppKit), Node.js

Technologies: Cloudflare (Workers, Pages, R2, KV, Zero Trust), Firebase (Auth, DB, Messaging), Git, Postgres