Tejas Mehta

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Education

Georgia Institute of Technology | Atlanta, GA   *Expected Graduation May. 2025*
GPA 3.92/4.0 | Bachelor of Science in Computer Science | Information Internetworks & Systems Architecture
Courses: Computer Organization & Programming, Design & Analysis of Algorithms

County College of Morris | Randolph, NJ   *September 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

Google - Cloud AI Vision   *May 2023 – August 2023*
STEP Intern - Full Time   Sunnyvale, CA
- Optimized memory footprint & performance of a real-time AI diagnostics tool (C++ & OpenCV) by ~80%, resulting in a minimal frame backlog and near-instantaneous overlay render time (verified in video up to 1080p @ 60FPS)
- Architected a large-scale decoupling and expansion of the same video tool, enabling diagnostic overlays of additional AI model results through the development of an expandable system relying on OOP & Polymorphism principles
- Utilized Angular, GraphQL, Java & Protobuf to implement new features in the Cloud AI Vision Console UI & Backend

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 tool that supported traces across a full-stack infrastructure
- 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 - May 2022*
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
- Architected systems for various use-cases such as real-time chat, translation, note-taking, and social networking

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
- 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 (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 Interoperability
- 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 Interoperability
- 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

Bits of Good | Georgia Tech   *Jan 2023 - Present*
- Completed tickets as a backend developer to build API & server side functionality for the nonprofit Angels Among Us
- Architected & implemented the end-to-end image & video upload/download flow utilizing R2 Storage & MongoDB, featuring dynamic image resizing, upload security, and caching optimizations for the high-read + low-write use-case
- Developed core API endpoints for post creation/modification and user creation/management

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: Rust, C++, C, Go, Swift, Java, Dart, TypeScript, JavaScript, GraphQL
Frameworks: OpenCV, Flutter, iOS (UIKit), Android, macOS (AppKit), Node, React, Next.js, Angular
Technologies: Cloudflare (Workers, Pages, R2, KV, Zero Trust), Firebase (Auth, DB, Messaging), Git, Postgres, MongoDB