Tejas Mehta

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Education

Georgia Institute of Technology | Atlanta, GA   *August 2022 - May. 2025*
GPA 3.96/4.0 | Bachelor of Science in Computer Science | Information Internetworks & Systems Architecture
Courses: Design of Operating Systems, Computer Systems & Networks, Design & Analysis of Algorithms

Professional Experience

Akuna Capital - Market Data   *June 2024 - Present*
Software Engineer Intern - C++   Chicago, IL
- Developed support for extra exchange message types using C++ compile-time polymorphism in a low-latency environment
- Designed a monitoring solution to analyze > 5M messages/min & publish statistic info with negligible latency overhead
- Architected a dynamic rate-controller for non-critical message publishing, reducing congestion in high-volume scenarios

Cloudflare - Hyperdrive Team   *August 2023 - December 2023*
Software Engineer Intern   Remote
- Implemented intelligent caching & revalidation logic for SQL read queries, decreasing average per-query latency by 30%
- Developed production-deployed runtime & configuration features (Rust & Go) to allow for cache timeframe customization
- Created local development integrations for Hyperdrive within Cloudflare's open-source C++ 'workerd' runtime

Google - Cloud AI Vision   *May 2023 – August 2023*
Software Engineer Intern   Sunnyvale, CA
- Reworked & memoized drawing logic in a Vision AI diagnostics tool (C++ & OpenCV), improving performance by ~80%
- Identified & removed bottleneck for video & annotation processing by migrating to a multi-threaded architecture
- Architected a large-scale decoupling and expansion of the diagnostics tool, enabling overlays of additional AI model results through the development of a modular 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   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 logged accesses across all points of lookup (in-ecosystem + API)
- Utilized TypeScript, C++, Go, Cloudflare Workers, and Cap'n Proto in the storage tracing tool & content-type detector

Organizations

Hack4Impact (Bits of Good) | Georgia Tech   *Jan 2023 - Present*
- Led an internal team to develop critical infrastructure & containerize builds across all 18 active project teams
- Planned & developed a microservice-based API to seamlessly & uniformly integrate third-party tooling across all projects
- Architected & implemented an end-to-end image/video storage flow (R2 Storage & MongoDB) featuring dynamic image resizing, upload security, and CDN caching optimizations for a high-read + low-write use-case

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
- Utilized 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

smb_reader | Rust, SMB, TCP/IP, Networking, Compilers & ASTs
- Developed an open-source parser and server implementation of the SMB protocol fully-compliant with official specs
- Relied upon Rust's procedural macro system to operate on message structure ASTs for automation of (de)serialization logic
- Provides a simple message format & backend implementation to enable rapid filesystem development for developers

dargon2 & Argon2Swift | Swift, Dart, Flutter, FFI, JavaScript, C Interoperability
- Wrote an open-source plugin to implement Argon2 password hashing functionality in Dart/Flutter + Swift apps
- Available for all Flutter & Dart platforms (Web, iOS, Android, macOS, Windows, Linux) and Swift-supported targets
- Recognized as the official plugin for Argon2 password hashing for Dart, Flutter, and Swift Applications

Awards

Winner (1 of 300 internationally) – Apple WWDC21 Swift Student Challenge

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

Skills

Languages: C++, C, Rust, Go, SQL, Java, Swift, Dart, TypeScript, GraphQL

Technologies: Git, Postgres, MongoDB, Docker, React, Cloudflare (Workers, Pages, R2, KV, Zero Trust), JIRA

Misc. Proficiencies: Distributed Computing, Concurrency, Networking, UNIX/Linux