Aman Meherally

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EDUCATION

University of Toronto	Toronto, ON
Co-op - Hons. BSc (CS & Statistics)	*Expected April 2028*

Recipient of University of Toronto Scholar Award (Merit-based scholarship of $\sim$$20,000)

EXPERIENCE

Full Stack Developer — May 2025 – Present
KKC Classroom — *Toronto*

- Architected a full-stack EdTech platform using **Next.js and Firebase**, accelerating delivery of 3+ features for launch
- Executed a 100% codebase **migration to TypeScript**, reducing potential pre-deployment bugs by an estimated 40%
- Engineered the core monetization engine by **integrating the Stripe API** with the Next.js and Firebase backend to enable subscription payments, unit-tested REST API endpoints with NTARH
- Migrated fetching logic to a DAL, set up CI/CD on GitHub (main, staging, dev) to automate testing and deployment

Software Engineer — February 2025 – April 2025
Disposable Food Packaging

- Reduced database backup time by 95% (from 5 minutes to 15 seconds) and simplified the process **to one click**
- Introduced a new feature for **remote editing of data** within the MS SQL database, eliminating a manual workflow
- Integrated Google Drive API to automate the uploading and downloading of 100MB database backups, ensuring data integrity and accessibility

PROJECTS

DevDoc | Next.js, Tailwind, React, shadcn, Neon, PostgreSQL, pgvector — GitHub, DevPost

- Led the front-end development and UI/UX design for a VS Code extension that provides version-aware code suggestions using a **RAG pipeline** with GPT 4.0 & Gemini, providing an interactive and responsive user flow
- Designed and built the complete user experience, including the promotional landing page and the intuitive chat interface for the extension, driving **20+ marketplace installations in the first 24 hours**
- Implemented Vercel's AI SDK to manage model interactions and stream real-time code suggestions
- Created a diagnostic feature that automatically scans the user's codebase for deprecated and unsafe code

Acento AI | React, Vite, Tailwind CSS, Python (Flask), API Streaming — GitHub, DevPost

- Orchestrated the secure data flow for an **AI-powered resume analyzer** and a **real-time vocal coach**, building the interface to process and render both text and audio-based feedback from the backend API
- Led the entire front-end development of an easy-to-use UI, delivering a fully functional prototype in under 36 hours
- Constructed a live, **conversational interview coaching experience** by implementing API streaming to display AI-driven analysis of vocal tone and filler words to the user instantaneously as they spoke

QuickFlow | React, CSS, ReactFlow, Firebase (Auth, Firestore, Hosting) — GitHub

- Architected and independently built an **interactive programming-logic editor** from concept to a live proof-of-concept, designed to simplify foundational coding concepts for beginners on a simple, intuitive user interface
- Engineered a **custom node-based system** on top of React Flow for essential programming logic—including variable declarations, conditionals, and loops—and implemented connection validation to guide users toward valid structures
- Provided a real-time learning experience by developing an **integrated console** that instantly displayed the output of visually constructed code, a concept validated with positive feedback from beta testers

LySchedule | React, CSS, ReactFlow, Firebase (Google Auth, Firestore, Hosting) — Website

- Developed and launched a secure student scheduling platform, resolving a **critical data privacy risk** by replacing an insecure public PDF that exposed the names, ID numbers, and schedules of hundreds of students
- Engineered the full-stack application using React and the Firebase suite (Hosting, Firestore), authoring **custom security rules** to ensure each user could only access their personal academic data
- Created a personalized dashboard displaying class schedules, lecture timings, and final exam dates, leading to organic, word-of-mouth adoption from 25+ users who logged over 500 sessions