Shrey Mahey

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EDUCATION

University of Waterloo — September 2020 – May 2025
Bachelor of Science in Biomedical Engineering with Distinction
- Recipient of the University of Waterloo President's Scholarship, Honours Co-op
- Coursework: Digital Computation, Data Structures and Algorithms, Computational Neuroscience, Digital Systems

SKILLS

Development Experience: Python, Flask, Java, C#, C++, TypeScript, ReactJS, React Native, VueJS, Svelte, NestJS, Tailwind
Technologies: AWS, Amplitude, Postman, Sentry, GCP, Microsoft Azure, Azure ML Studio, GitHub, SQLite, DynamoDB, Unity, SOLIDWORKS, Adobe Photoshop, Adobe Illustrator, Blender, Charles, SourceTree, Docker, PostgreSQL, MatPlotLib
Certifications: Artificial Intelligence Foundations: Thinking Machines (Issued June 2021), Microsoft Certified: Azure Fundamentals (Issued June 2021)

EXPERIENCE

Founding Engineer — September 2025 –
Quip Medical — *Remote*
- Migrated from **Python** to **TypeScript**, **tripling** the number of supported platforms via **React** and **Vite** on **Electron**
- Architected bespoke automation workflows to **increase EMR coverage by 100%** from end-to-end using **low-level automation** and **computer vision** libraries, increasing prospective user base by **15.09%**
- Greatly increased automation speed using **computer vision techniques** by implementing **native resolution template matching**, resulting in an **~80% decrease** in template matching time (**~1000 ms** to **~200 ms** per match)
- Integrated **Sentry Traces**, **Logs**, and **Errors**, producing a comprehensive suite of **quantitative**, **actionable data**, as well as **Sentry User Feedback**, significantly improving **UX R&D iteration timelines**

Full Stack Software Engineer — May 2024 – August 2024
Chatsimple — *Waterloo, ON*
- Increased userbase by **18.2%** by engineering **livechat** for widget, allowing users to manually take over from their chatbots mid-conversation with visitors using **AWS Lambda** functions, **AWS API Gateway**, and **RDS databases**
- Improved Facebook integration stability by **5%** to persist user Facebook page connections to chatbots using **FB API**
- Facilitated **58%** MRR increase by implementing new **chatbot configurations**, visitor **geolocation data collection**, and **data visualization**, letting users see visitor locations via **Python**, **React**, **Tailwind**, **Ant Design**, and **Framer**

Full Stack Software Engineer — January 2024 – April 2024
Medreddie — *Waterloo, ON*
- Increased active userbase by **~12%** by helping build a HealthTech platform that connects medical device procurement teams and suppliers through AI using **TypeScript**, **VueJS**, **Tailwind**, **NestJS**, **TypeORM**, **Docker**, **MongoDB**, **PostgreSQL**, **Elasticsearch**, **AWS**, and **Twilio**
- Enhanced visibility of supplier-side metrics by **40%** by engineering supplier-side data analytics dashboard via **VueJS**
- Facilitated cross-browser client accessibility by **100%** by migrating historical data programmatically from **Google Drive** and **MongoDB** to **AWS S3** using **Python**, **Google Cloud**, and **AWS SDK**
- Reduced phishing vulnerabilities by **13.4%** by implementing secure email-based 2FA login/sign-up flows using **SendGrid**, **Yup**, **VeeValidate** and **NestJS** for suppliers

Connected TV Software Engineer — September 2022 – December 2022
Accedo — *Toronto, ON*
- Increased product coverage to **4 new platforms** (**iOS**, **Samsung TV**, **Apple TV**, **Roku TV**) by implementing a SaaS configuration tool that allowed Accedo's clients to modify the layout, branding, and content of their applications post-launch via **JavaScript**, **React JS**, and **React Native**
- Pushed development of Cogeco's video streaming platform 'Epico' ahead by **5 weeks** by streamlining development using internal **JavaScript**, **ReactJS**, **React Native**, and **Java** libraries
- Localized Epico to **2 new languages** using contextual region coding via in-house content management systems

Full Stack Software Engineer — January 2022 – April 2022
Hypeshot — *New York, NY*
- Developed chrome extension for fantasy sports fans using **JavaScript**, **ReactJS**, and **React Native** to let users bypass sports betting websites by betting directly through match stream providers
- Improved user retention rate by **~5%** over **4 weeks** by integrating historical data of users' interaction history with product from **DynamoDB** into **Amplitude**'s product analytics service using **NodeJS** to analyze user retention patterns
- Increased unique user count by ~**10%** over **3 weeks** via real-time logging of user behaviour data with **Amplitude SDK**