SHIVAM SHARMA

DEVELOPER · ENGINEER

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EDUCATION

UNIVERSITY OF WATERLOO *2020 - 2025*

B.A.Sc. in Systems Design Engineering, Honours, Co-op - Graduated with 3.8 GPA *Waterloo, ON*

- Awarded the Ontario Professional Engineers Foundation Scholarship and Norman Esch Awards for both E-Coop and Capstone.
- Courses: Systems Programming and Concurrency, Programming for Performance, Computational Simulations

EXPERIENCE

VOLTRA ENERGY INC. - Founding Engineer *Waterloo, ON | Jan 2024 - Present*

- Helped define product roadmap and engineering direction as a founding engineer by executing across design, frontend, and backend.
- Led development of a Charge Point Management System dashboard using Next.js, shaping early product direction and UX.
- Architected scalable APIs and backend services within a monorepo codebase, modularizing queries and shared utilities to improve integration speed and system scalability.

CADENCE - Founder *Toronto | Sept 2023 – Dec 2024*

- Designed and launched a multiplatform productivity app that integrates tasks and calendar views for more intuitive time management.
- Built a sync engine with CloudKit to reliably share data across iOS, iPadOS, and macOS.
- Awarded $5,000 in funding (Norman Esch Foundation) through a competitive pitch deck and business plan.

ECOBEE - Software Engineer *Toronto | May – Aug 2022*

- Launched automatic trial initiation for users with GraphQL, boosted new trial starts by 80% and increased feature awareness.
- Engineered and validated end-to-end workflows for trial notifications, including system analysis, requirements definition, and integration testing.
- Delivered internal architecture reviews and technical demonstrations to improve cross-team adoption of developer tools and system enhancements.

WISH - Software Engineer *San Francisco | Sept – Dec 2021*

- Developed and integrated large-scale backend and iOS application features, architecting data flows within a monolithic Python system and ensuring stable deployment to 100M+ users through controlled A/B rollouts.
- Refactored core UI code into a shared library, improving dev velocity and reducing design drift across 3+ teams.
- Designed and deployed a production monitoring and alerting framework to analyze crash data, diagnose regressions, and improve fault tolerance.

THESCORE - Software Engineer *Toronto | Jan – Apr 2021*

- Designed and implemented a high-performance iOS 14 Widget architecture, optimizing UI rendering and data synchronization for 1M+ daily users.
- Engineered workflow optimizations by introducing tooling and development practices that reduced feature delivery timelines by 60%.
- Analyzed and optimized a mixed Swift/Objective-C codebase for stability and responsiveness, applying software engineering methodologies within an Agile Scrum framework.

PROJECTS

GRUGATTI

Mechatronics Build Project - Article

- Collaborated with 8 teammates to design and fabricate a life-sized Gru-Mobile featured on CTV News
- Built drivetrain and wired electrical system while machining custom components under intense constraints, completing in 4 days during midterms.

MEDRONE *Jan '24 – Apr '25*

SYDE Capstone

- Led development of a drone-based medical delivery system with a custom payload drop mechanism and real-time telemetry.
- Implemented multi-hop msgpack communication across dashboard, server, phone, and drone for live data + control.
- Pitched and secured $5,000 in non-dilutive funding; designed an inflatable airbag system to cushion payload drops.

SIRIGPT

Personal Project - Post

- Extended Siri with an LLM-based conversational engine using Shortcuts for intelligent, natural voice interaction; drew 286k views.
- Reduced latency and improved engagement by implementing and optimizing prompt strategy, caching, and contextual window design.

SKILLS

Languages//Platforms　C/C++, Swift, Go, Java, Python, JavaScript/TypeScript, HTML/CSS **//** macOS, iOS, Linux, Arduino, RPi, ESP

Frameworks//Tools　SwiftUI, UIKit, Node.js, Next.js, React, MicroPython **//** Git, Jira, Figma, Xcode, CAD, Adobe CC