ANSHUL RUHIL

♦ (226)978-7316 ♦ aruhil@uwaterloo.ca ♦ Linkedin ♦Github
University Of Waterloo, Honors Computer Science, September 2020 to 2025

───────────────── WORK HISTORY ─────────────────

Ecobee - iOS Developer   *September 2024 to April 2025 (Toronto, Ontario)*
- Engineered a **comprehensive energy management system** for the Ecobee app, handling normal outages, user-configured outages, delayed starts, offset-active modes, and mobile-determined power sources.
- **Built a custom composable navigation framework (SwiftUIFlow)** that leverages SwiftUI's NavigationStack with strongly typed flow steps and compile-time validation, then implemented it to deliver complete thermostat-linking flows with Bluetooth scanning, QR code reading, and link code functionality in a unified, maintainable navigation system.
- Developed and resolved 50+ tickets spanning bug fixes, product features, tech debt, and tasks, utilizing **SwiftUI, MVVM, Combine, Swift Concurrency, and dependency injection** while implementing **GraphQL networking, database queries, and caching strategies** for optimized performance and modularity.
- Refactored the EcobeeStorage package, which manages user preferences and persisted data, for Swift 6 concurrency compliance by introducing separate async and synchronous interfaces for UserPreferenceStore, ensuring safe mutable state access and eliminating data race conditions.
- **Led two sprints** for the Ecobee Mobile Energy team, coordinating cross-functional efforts to deliver key thermostat features on schedule.

OpenLane - iOS Developer   *September 2023 to December 2023 (Toronto, Ontario)*

- Enhanced bid management systems and real-time auction updates using **SwiftUI**, implementing advanced state management and asynchronous data handling using **Swift Concurrency**.
- Developed 30+ UI components, views, and screens using **SwiftUI** and **UIKit**, facilitating the brand transition from TradeRev to OpenLane. This overhaul significantly improved usability and navigation.
- Resolved **20+** bugs, aiding in a 5% reduction in crash rates

Andersen Corporation - Software Developer   *April 2023 to August 2023 (London, Ontario)*

- Rebuilt the plant data mapping system by migrating the codebase from Classic ASP to **C#**, **ASP.NET**, **SQL**, and Razor for the frontend, enabling real-time data analysis, reducing data processing time by 50%, and delivering a seamless user experience.
- Implemented binary search and hash indexing in C#, achieving a **30%** improvement in data retrieval efficiency.
- Spearheaded the redevelopment and deployment of the web-based plant data mapping system for managers, transforming operational workflows and achieving **full adoption across all 15 production sites** after earning senior management approval.

Vretta INC - Web and Automation Developer (promoted)   *January 2022 to August 2022 (Toronto, Ontario)*
- **Led and mentored a team of four developers** on EQAO and BCED projects, recognized for leadership in automation and performance improvements.
- **Accelerated the QA lifecycle by 50%** by developing 60+ Selenium scripts in JavaScript and introducing K6-based automated load testing, simulating 300,000+ users.
- Enhanced EQAO platform performance and user experience by developing 20+ interactive assessment modules and dynamic data visualization dashboards using **Angular**, D3.js, and **JavaScript**, facilitating more effective learning gap analysis.
- Integrated **REST APIs** into assessment modules to enable real-time data retrieval and feedback, streamlining user interaction and improving platform responsiveness.

───────────────── PROJECTS ─────────────────

Ontario School Board administrative software (App Store Link)

- Codebases: **iOS Github repo, Backend Github Repo, Web Frontend Github repo**
- **Architected a multi-platform community service tracking system for Durham District School Board** serving 3000+ users with native iOS (Swift/SwiftUI) and Android (Kotlin/Compose) apps for student submissions, React web dashboard for administrator approval and analytics, and NestJS/TypeScript backend with PostgreSQL, Clerk auth, and AWS deployment—currently in procurement phase.

WorthyTrust - DeFi Trust Fund Platform (Live Website)
- **Built a full-stack DeFi trust fund platform** with Next.js 14/TypeScript frontend, Solidity smart contracts featuring automated distributions and multi-sig governance, cross-chain support (Ethereum/Polygon/Arbitrum), Fireblocks custody integration, real-time analytics, and enterprise-grade security with time-locked vesting and OpenZeppelin standards.

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Ruhil Care - Technical Lead & Software Architect (Part-time)　　　　*December 2022 to present*

- **Led 4-person offshore team to architect and build a comprehensive medical CRM system** serving 200+ employees across multiple NDIS disability care clinics, featuring React/Laravel full-stack architecture, role-based access controls, AWS cloud infrastructure (RDS/EC2/S3), AI-powered performance analytics, and HIPAA/NDIS-compliant data handling—while establishing technical standards and coordinating cross-functional requirements gathering to seamlessly integrate complex operational workflows.

Wusa – Board of Directors　　　　*April 2023 to April 2024*
- Influenced key decisions as a WUSA Board member, managing **$3M+** budgets and enhancing student life for 31,000+ students at the University of Waterloo, contributing to policy development for better campus services.

Sigma Chi – President　　　　*April 2023 to April 2024*
- Elevated a fraternity chapter from 13 to 61 members in one year, managing an executive board and leading 61 overall members towards community service, academic excellence, and unity goals.
- Orchestrated 10+ events with over 500 attendees each, generating over $20,000 in revenue for the organization through meticulous planning, risk management, and the use of custom-made ticketing platforms. Enhanced event quality by collaborating with professional DJs, videographers, and photographers, and securing partnerships with various brands, all while fostering team cohesion and effectively resolving conflicts.
- Administered weekly executive meetings to track chapter progress, efficiently operated a $1,500,000 property, and managed a $30,000+ budget for operational costs and insurance.