

Ayaan Shahab

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EDUCATION

University of Toronto

Toronto, ON

Bachelor of Science in Computer Science, GPA: 4.0/4.0

Sep. 2023 – Aug. 2027

- **Awards:** \$9,000 in merit-based scholarships for academic excellence
- **Relevant Coursework:** Software Design, Systems Programming, Database Design, Web Development

EXPERIENCE

Software Engineering Intern

Sep. 2024 – Present

Wattpad

Toronto, ON

- Shipped **5+ production features** to iOS app serving **90M+ users**, driving measurable impact across key metrics
- **Increased feature adoption by 6x YoY** and expanded reach to **4% more users platform-wide**; improved engagement by **20%** for enhanced content
- **Launched highly-requested feature with 17x growth** from day 1 to day 7; implemented iOS client using **Swift/SwiftUI** with **RESTful API** integration
- **Architected scalable features** using **MVVM + Combine framework** for reactive state management; wrote **comprehensive unit/UI tests** with XCTest
- **Served as Release Master for 3 production releases** with **zero critical incidents**; managed **CI/CD via GitHub Actions/Fastlane** and monitored production health through **Firebase Crashlytics**
- Led team collaboration as **standup facilitator for 6+ months** and coordinated cross-functional engineering syncs

PROJECTS

Distributed Rate Limiter | *Go, Redis, Docker, Lua, k6*

Sep. 2025 – Oct. 2025

- Implemented a distributed rate-limiting service using **Token Bucket and Sliding Window algorithms** with Redis for cluster-wide state
- Achieved **10,000+ requests/s throughput** with **sub-millisecond p95 latency (0.51ms)** using atomic Lua scripts
- Containerized with **Docker** for consistent deployment; validated through **k6 load testing** and automated benchmarks

Inventory Management App | *Java, Firebase, Android Studio*

May 2024 – Aug. 2024

- **Led a 4-person team** to develop an Android app for Toronto Asian Art Museum, selected for potential deployment among **20+ competing projects**
- Built with **MVP architecture** and **Firebase Realtime Database + Cloud Storage** for scalable item management and image uploads

Gamescg – Full Stack Game Tracker | *JavaScript, SvelteKit, Firebase*

Jan. 2023 – Apr. 2023

- Developed **full-stack web app** to browse, track, and review video games using **SvelteKit and Firebase Authentication**
- Designed **responsive frontend with Bootstrap** and integrated **NoSQL backend** for user reviews and game data

Course Planner | *Swift, SwiftUI, Firebase, Python, Selenium*

Dec. 2023 – Jan. 2024

- Built an iOS app to help students track university courses using data scraped via **Python Selenium**
- Designed a smooth, responsive UI with **modern SwiftUI patterns** and **real-time Firebase sync**

TECHNICAL SKILLS

Languages: Swift, Python, JavaScript, TypeScript, Java, C, Go, SQL, HTML/CSS

Mobile Development: SwiftUI, UIKit, Combine, Android SDK, Xcode, Firebase

Backend & Web: Node.js, Express, React, SvelteKit, Flask, PostgreSQL, Redis, RESTful APIs

Developer Tools: Git, GitHub Actions, Fastlane, Docker, VS Code, Firebase Crashlytics