

Jachak Sekhon

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Education

Simon Fraser University
Bachelor of Computer Science

Sept. 2020 – April 2025
Burnaby, BC

Experience

Software Developer Co-op (Remote)
Peloton Technologies Inc.

Sept. 2024 – Dec. 2024
Victoria, BC

- Developed key financial features in **C#/.NET core 8.0**, enhancing user experience & system efficiency
- Optimized transaction logic by migrating **SQL** to **C#** with **EF Core**, improving performance & maintainability
- Resolved **critical system bugs** in .NET migration, ensuring seamless deployment with **zero downtime**
- Improved backend performance by implementing **asynchronous programming (async/await)** in **C#**

Web Developer Co-op (Hybrid)
Govt. of Canada - Public Services and Procurement Canada

Jan 2024 – Sept. 2024
Vancouver, BC

- Boosted app performance by **30%** by modernizing **.NET Core 2.1 → 8.0**, improving **scalability**
- Resolved **70+ critical issues** across multiple apps using **C# & JavaScript**, enhancing **stability**
- Optimized **C# & EF Core** backend with **query caching** and **indexing**, reducing database load times by **25%**
- Implemented RESTful APIs in **ASP.NET Core**, ensuring efficient communication between front & back-end services

Software Engineer in Test Co-op (Hybrid)
ClearDent

Sept. 2022 – April 2023
Burnaby, BC

- Developed **50+ C#** test cases (**NUnit, Selenium**), adding **4k+ lines** of automated test scripts
- Collaborated with teams to resolve bottlenecks in dental software, reducing reported issues by **25%**
- Refactored test cases to improve execution time, achieving **50% faster** test run times and increased reliability
- Designed and maintained test frameworks in **C#**, ensuring consistent and scalable automated testing

Full-Stack Developer Intern
Acme Visa Solutions Ltd.

Jan 2022 – April 2022
Surrey, BC

- Designed and optimized a SQL Server database with 10+ tables for 500+ student records
- Built a full-stack web application from scratch using **C#** and **JavaScript**, implementing MVC architecture
- Developed front-end and back-end logic using **C#**, **JavaScript** and **jQuery**, ensuring efficient data handling
- Enhanced front-end responsiveness and interactivity with **C# Razor pages, Javascript and jQuery**

Projects

iCradle | *Python, TypeScript, Kotlin, Django, Flask, React, MySQL, Docker*
Research Course Project | King's College London Collaboration

- Hardened backend security through **SQLAlchemy parameterized queries**, preventing SQL injection attacks
- Optimized **SMS data transfer** in **Kotlin** using **base64 encoding/decoding**, improving efficiency
- Fixed bugs and optimized the frontend using **React** and **Typescript**, improving functionality and UX
- Acted as Scrum Master, managed sprint planning and distribution of tasks to ensure efficient project progress

Technical Skills

Languages: C#, TypeScript, JavaScript, Python, Kotlin, SQL

Frameworks: .NET Core (2.2,4,8), ASP.NET, EF Core, React, KendoUI, Tailwind CSS

Developer Tools: Git, Azure, Docker, SSMS, MongoDB, AWS (Lambda, S3, DynamoDB), Jira, Node.js