

Jachak Sekhon

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Education

Simon Fraser University

Bachelor of Computer Science (Cooperative-Education)

Sept. 2020 – July 2025

Burnaby, BC

Experience

Software Developer Co-op (Remote)

Peloton Technologies Inc.

Sept. 2024 – Dec. 2024

Victoria, BC

- Integrated RESTful APIs with banks using C# .NET Core to enable real-time transaction processing and data sync
- Migrated raw SQL to EF Core LINQ, improving codebase maintainability and reducing technical debt
- Used async/await logic in C#, which reduced request response times and improved backend throughput
- Implemented frontend features using TypeScript, ensuring seamless integration with backend APIs

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 apps → 8.0, improving scalability
- Built RESTful APIs for inter-service communication, improving reliability and reducing client-side errors
- Optimized backend performance with indexing and caching, reducing database response time by 25%
- Resolved 70+ critical issues across multiple apps using C# & JavaScript, enhancing stability

Software Engineer in Test Co-op (Hybrid)

ClearDent

Sept. 2022 – April 2023

Burnaby, BC

- Automated 50+ UI test cases using C#, NUnit and Selenium, expanding coverage and reducing manual QA time
- Collaborated with teams to resolve bottlenecks in dental software, reducing reported issues by 25%
- Improved test framework reliability by refactoring flaky tests, cutting run times by 50%
- Designed and maintained test frameworks in C#, ensuring consistent and scalable automated testing

Projects

Blog | JavaScript, Java, React, AWS (Amplify, Lambda, S3, DynamoDB, SES, AppSync), Tailwind, Twilio | [Link](#)

- Built and deployed a full-stack blog platform using React and Amplify, enabling dynamic content publishing
- Integrated Lambda functions in Java with Twilio and SES to automate SMS/email notifications
- Enabled secure media handling via Amplify Auth and S3 storage for user-uploaded files
- Designed and implemented GraphQL APIs via AppSync, streaming CRUD operations on DynamoDB

iCradle | Python, TypeScript, Kotlin, Django, Flask, React, MySQL/NoSQL, Docker | [Link](#)

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#, Java, TypeScript, JavaScript, Python, Kotlin, SQL

Frameworks: .NET Core (2,4,8), ASP.NET, EF Core, React.js, Tailwind CSS, Express.js, Kendo UI

Databases: SQL, PostgreSQL, MongoDB, DynamoDB, Firebase, AWS S3

Developer Tools: Git, Azure, Docker, SSMS, MongoDB, Node.js, AWS Lambda, Jira, Prisma