

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
- Created and integrated backend test cases in C# to validate transaction reliability and error-handling
- Migrated raw SQL to EF Core LINQ, improving codebase maintainability and reducing technical debt
- 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 to 8.0, improving scalability
- Developed integration tests to validate API endpoint and data flow between microservices
- 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%

Software Engineer in Test Co-op (Hybrid)

ClearDent

Sept. 2022 – April 2023

Burnaby, BC

- Tested RESTful API endpoints and UI workflows, validating data flow and service integration
- Built and maintained unit, integration and UI tests with C#, NUnit and Selenium, reducing manual QA time
- Optimized Selenium waits and removed redundant steps, improving test stability and cutting run times by >30%
- Ran weekly regression tests using manual and automated suites to ensure stable feature releases

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, Selenium, 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