Tijeet Singh Makkar

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Education

Conestoga College   **Waterloo, O.N.**

Batchelor's of Computer Science(Honors)   *Expected Graduation, AUG 2027*

Profile

Computer Science (Honours) undergraduate with strong foundations in backend development, databases, and AI-powered systems. Experienced in enterprise-scale software collaboration, CI/CD pipelines, and REST API integration. AWS Certified AI Practitioner passionate about building scalable, production-ready software.

Relevant Coursework

Enterprise Software Development
-Worked on a full-class enterprise system where multiple teams built interconnected software modules using SDLC and Agile workflows.

Software Quality & DevOps
-Designed CI/CD pipelines, automated testing workflows, and code quality analysis using GitHub Actions, PyTest, Pylint, and SonarQube.

Skills

Languages: SQL, Java, PHP, Python, C++, C
Backend & APIs: REST, Client-Server, JWT, RBAC
Frameworks & Libraries: React, Node.js, Express, Flask
AI Tools: OpenAI API, LangChain
CI/CD & DevOps: AWS (Lambda, S3), Docker, GitHub Actions, Pytest, Pylint, SonarQube
Databases: MongoDB, MySQL

Work Experience

Amazon   **Cambridge, O.N.**
Warehouse Associate   *Apr 2024 – Present*
-Worked with digital inventory management systems to track, verify, and process thousands of orders daily

Guess   **Ajax, O.N.**
Seasonal Associate   *Nov 2023 – Jan 2024*
-Operated POS systems and digital inventory platforms to manage transactions and stock records

Projects

Enterprise POS Platform – Database & Auth Service MongoDB, REST, JWT, RBAC, Swagger
- Built a centralized database & authentication microservice for a multi-team enterprise POS system
- Designed secure CRUD APIs with role-based access control and auditing
- Collaborated through Agile sprints, Git version control, and peer code reviews to deliver production-style database and authentication services across multiple dependent teams

CI/CD Pipeline Modernization GitHub Actions, Pytest, SonarQube, Docker
- Implemented automated pipelines with linting, unit, integration, and acceptance testing
- Integrated static analysis and quality gates for continuous code validation
- Documented CI/CD workflows and quality gates while coordinating team commits and resolving build failures across multiple pipeline stages

QuizGenie – AI Quiz Generator C++, REST API, Sockets
Python, APIs (Jira + Confluence), Data Visualization, Git
- Built an AI-powered quiz generator that converts PDFs into interactive quizzes using GPT-based APIs
- Implemented secure client-server communication using sockets
- Conducted structured testing, debugging, and API validation to ensure reliable AI responses and stable client-server communication