

Aaron Deo

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science, Minor in Data Science

Kelowna, BC

Sep. 2020 – Jun. 2025

EXPERIENCE

Full Stack Developer

Jul. 2024 – Jan. 2025

University of British Columbia - Faculty of Management

Kelowna, BC

- Designed and implemented a full-stack web application using Django, React, MySQL, and Docker to enhance healthcare accessibility, streamlining patient data management and communication as part of a research-driven software project.
- Developed secure RESTful APIs in Django to manage and retrieve structured patient communication and health data.
- Designed and executed test cases to ensure system reliability and performance.
- Led project management efforts by organizing development workflows and coordinating tasks among programmers, ensuring smooth execution of complex software components.

Associate Business Analyst

Aug. 2023 – Aug. 2024

University of British Columbia - Integrated Renewal Program

Vancouver, BC

- Developed training presentations for academic advisors by gathering requirements and demonstrating how Workday Student addresses their needs, improving user adoption and efficiency.
- Designed clear and concise system design process documentation with visual diagrams to guide advisors on efficiently editing class standing and year level in Workday Student.
- Utilized Jama Software and JIRA to identify, report, and resolve potential issues uncovered during unit testing.
- Collaborated with Workday consultants to advocate for changes in Workday Student aimed at benefiting UBC stakeholders.
- Analyzed degree requirements and configured curriculum logic in Workday Student for 50+ academic programs across UBC campuses, aligning technical implementation with academic policy.

Software Developer

May 2023 – Aug. 2023

Farm Credit Canada

Regina, SK (Remote)

- Implemented Java Spring Boot with REST APIs to automate fraud detection for 20,000+ loan applications.
- Digitized sales contract using HTML/ TypeScript to optimize completion time by 50%. Collaborated with legal and design teams to ensure compliance and usability.
- Followed Agile methodologies throughout the software development lifecycle, from design to deployment.
- Used Docker for application packaging and Jenkins for automated CI/CD.

Learning Technologies Rover

Sep 2021 – Dec. 2021

University of British Columbia - Center for Teaching and Learning

Kelowna, BC

- Front Line Tier 1 technology support for faculty members, managing emails, phones and front desk services
- Enhanced UBC's classroom catalog interface using HTML and CSS as part of inter-faculty collaboration.
- Troubleshoot teaching and learning technology platforms such as Canvas, Zoom, Collaborate Ultra, and other tools

Tech Specialist

Aug 2018 – Aug. 2021

London Drugs

Burnaby, BC

- Provided Tier 1 tech support for smartphones, laptops, and home networks, resolving connectivity and configuration issues.
- Diagnosed OS errors, hardware failures, and software conflicts using diagnostic tools, reducing service times.
- Walked customers through device setup, account configuration, and data transfer, minimizing post-purchase returns.

PROJECTS

AI Insurance Policy Comparison Tool | React, Flask, Tailwind CSS, Docker, Tesseract OCR

Sept. 2024 - Apr. 2025

- Developed an AI-powered tool for BFL Canada to compare insurance policies, detect differences, and ensure accuracy.
- Leveraged a machine learning model alongside Tesseract OCR and PyMuPDF to extract text and assign a confidence score, enabling automated acceptance or rejection of extracted content based on perceived accuracy.
- Built a React frontend and Flask backend, managing data models with SQLAlchemy.
- Implemented Test-Driven Development (TDD) practices, using pytest for backend testing and Jest for front-end testing
- Used Diff Match Patch and PyMuPDF to highlight and mark textual differences on documents.

HACKATHON AWARDS

Most Technically Impressive Award (Chaos Hacks 2024) - Navigational App

Healthcare and Accessibility Track Prize Winner (NwHacks 2024) - Hospital Logistics App

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS, JavaScript, TypeScript, MySQL, PHP

Frameworks: React, Node.js, Django, Spring Boot

Developer Tools: Git, Docker, VS Code, IntelliJ, Eclipse, Jenkins