Sahil Chawla

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Recent Computer Science graduate from UBC Okanagan (Aug 2025) with experience in delivering clean and standards based software solutions. One year of work experience through coop, documenting code, processes, and building user guides to ensure maintainability and risk management. Recognized for assisting management in ensuring completeness and standardization of the code base and uniform UI design.

SKILLS

Languages: Python, JavaScript/TypeScript, PHP, SQL, HTML, CSS, Java, C#
Frameworks and Libraries: Laravel, React, Node.js, Next.js, Jest, .NET
Databases: PostgreSQL, MySQL
Tools and Platforms: Power BI, AWS, GitHub Actions, Azure, MS Excel, Git, Copilot, Postman

EDUCATION

University of British Columbia Okanagan, Kelowna, B.C | September 2019 - August 2025 (with 18 month Co-op)
Bachelor of Science (BSc.) - Major in Computing Sciences (With Co-op designation)

WORK EXPERIENCE

Full-stack Programmer CMAP (Co-op)   **May 2024 – December 2024**
University of British Columbia - Department of Kinesiology | Vancouver, BC

- Developed backend solutions in PHP (Laravel) to generate 9 program-level and 10 course-level Excel reports, applying custom logic and formatting to highlight key metrics for academic stakeholders.
- Evaluated stakeholder requirements, analysed MySQL schemas and table relationships, and created UML diagrams to map how each table supports the export feature, giving stakeholders a visual blueprint for feedback and alignment.
- Aligned the export feature with UBC instructors' teaching objectives, documented agile sprints on a Notion Kanban board, and authored a user manual that accelerated feature adoption and streamlined onboarding.

Learning Technology Rover (Co-op)   **September 2023 – April 2024**
University of British Columbia - Centre for Teaching and Learning | Kelowna, BC

- Provided just-in-time technical support to faculty and staff, advising on UBC learning technologies via face-to-face, virtual, phone, and ServiceNow channels, to troubleshoot issues and ensure uninterrupted teaching and learning.
- Investigated 500+ ServiceNow tickets using Python and Power BI to uncover usage trends and bottlenecks, built dashboards that informed new onboarding workflows, and reduced average resolution time by 30%.
- Led an accessibility-driven revamp of the CTL website, redesigning UI, restructuring information architecture, and applying WCAG standards, to improve navigation, inclusivity, and stakeholder satisfaction.

Software Engineer Intern   **April 2022 – July 2022**
365 Labs | Baton Rouge, Louisiana

- Collaborated in Agile sprints to build modular UI components using React and TypeScript for bike and permit applications, applying MVVM patterns for maintainability and dynamic data visualization.
- Designed and integrated RESTful APIs in C# (.NET), implementing structured logging, error handling, and dependency injection to support scalable backend services in a cloud-hosted (Azure) environment.

PROJECTS

Exam Management System   **January 2025 – April 2025**
Back-end Lead | Team Project

- Designed and implemented the PHP authentication backend using Laravel Sanctum, and authored PHPUnit integration tests to validate login, registration, and role-based access controls, ensuring secure, reliable user authentication.
- Facilitated peer testing sessions within the capstone team, demonstrating new features to classmates, gathering feedback on usability, and implementing fixes to improve system stability and user experience.

Directed Studies: HelpMe (AI Chatbot)   **May 2025 – July 2025**
Supervised by Dr. Ramon Lawrence | Kelowna, BC

- Automated workflows in Python, integrating external APIs (Confluence) and building secure data synchronization pipelines for HelpMe, while leveraging RAG with LLMs to deliver advanced, context-aware responses.
- Designed and executed A/B tests comparing AI-generated and manual responses using historical ServiceNow ticket data; utilized an AI evaluation framework to analyse results and extract actionable insights for model improvement.