

# Mohsin Dyer

Software Developer - Data Structures, Algorithms, Database Management Systems

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📍 [British Columbia](#)

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## SKILLS

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- **Programming Expertise:** Proficient in Python, C++, Matlab, and Q#, for developing scalable code solutions.
- **Web Development:** C/C++ libraries, NodeJS, WordPress & Shopify for user centric websites and platforms.
- **Database Management:** Versed in SQL and PostgreSQL, specializing in the optimization of database systems.
- **UI/UX Tools:** Figma, Balsamiq, Whimsical for designing visually appealing interfaces, leveraging wireframing.

## WORK EXPERIENCE

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### Software Developer

April 2023 – Present

*Alham Webtech - Victoria, British Columbia*

- Engineered and launched 15+ content management systems, utilizing Python, advanced HTML5, CSS3, MySQL, and Git for robust version control, enhancing client retention by 30% through deployment methodologies.
- Constructed a Python-driven data analytics tool to streamline operational reporting, integrating Pandas for data manipulation, SQL for database interactions, and Matplotlib reducing manual data handling by 40%.
- Optimized project management and delivery processes using agile methodologies, Trello for task management, Slack for team communication, and RESTful API integrations, cutting down project completion times by 20%.
- Amplified application performance by refining backend NodeJS operations, enhancing ReactJS frontend interfaces, and implementing efficient asynchronous programming techniques, slashing response times by 25%.
- Augmented client satisfaction by 40% through the implementation of comprehensive multilingual support in web applications, employing advanced internationalization techniques with NodeJS and ReactJS frameworks.

### Junior Software Developer

December 2022 – February 2023

*Precision Sails Ltd - Victoria, British Columbia*

- Troubleshoot over 20 complex API integration challenges, implemented currency conversion using NodeJS, robust JSON data handling, and secure currency exchange API integrations, boosting e-commerce transaction by 15%.
- Systematically deployed UML diagrams and workflow processes using Lucidchart, Figma for rapid prototyping, and Google Colab for enhanced collaborative coding, streamlining new employee onboarding processes by 25%.
- Enhanced Zoho CRM system efficiency by programming advanced SQL data queries and JavaScript event-driven trigger functions, reducing system failures and errors by 20% and elevating automation of business operations.
- Facilitated customer engagement by 18% through UI enhancements, leveraging ReactJS for component design, Figma for user experience prototyping, and Google Analytics for A/B testing on digital commerce platforms.
- Elevated development productivity by 35% through the application of modular programming practices in C++, and comprehensive software quality assurance using Google Test for efficient, scalable software development.

### Associate Product Manager Co-op

August 2021 – December 2021

*EatCoast Services Inc. - Vancouver, British Columbia*

- Authored a comprehensive 15-page technical requirements specification, utilizing Markdown for documentation, Balsamiq Mockups for UML diagrams, Figma for high-fidelity wireframes, and Swagger for detailed API.
- Created intricate user-flow diagrams in Whimsical, applying decision tree logic, state diagramming, and dynamic event-driven modeling to decrease system design errors and accelerate development cycles by 20%.
- Advanced backend system architecture using Python and Flask, applying sophisticated PostgreSQL database indexing, and query optimization techniques to enhance data throughput and reduce processing times by 25%.
- Boosted system reliability by 30% through the deployment of GitLab CI/CD pipelines for continuous integration and delivery, incorporating bug tracking and real-time code assessments to ensure deployment stability.
- Led feature adoption initiatives by 28% through strategic A/B testing implemented with Google Optimize, SQL-based segmentation, and heatmap usability studies, optimizing user experience for subscription-based services.

## EDUCATION

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### Bachelor's Degree in Computer Science

September 2019 - November 2022

*University of Victoria, British Columbia*

### University Transfer Engineering Program in Computer Engineering

September 2017 - April 2019

*Columbia College, British Columbia*

## AWARDS

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- **University Of Victoria Product Development Award** November 2021
- **University Of Victoria Engineering Coop Entrepreneurial Award** October 2021