

Ariq Muldi

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EDUCATION

University of British Columbia

Kelowna, BC

Bachelor of Science Major in Computer Science, Minor in Data Science

Expected Graduation, May 2026

- **GPA:** 4.21/4.33 (**90.6%**)
- **Relevant Coursework:** Software Engineering, Software Development and Maintenance, Data Structures, Database System Implementation, Introduction to Databases, Machine Learning, Analysis of Algorithms, Introduction to Networks, Machine Architecture, Human Computer Interaction, Introduction to Discrete Structures, Computer Programming I & II, Making Predictions with Data, Computer Ethics, Applied Regression Analysis, Introduction to Data Analytics, Applied Time Series and Forecasting, Sampling and Design

EXPERIENCE

Web Application Developer

Jul. 2025 – Present

University of British Columbia, Work Study Program

Kelowna, BC

- Designed and developed a full-stack web application for managing CSV data with role-based access controls, enabling **5+ user roles** to perform specific actions (view, edit, delete, comment) while ensuring data consistency and security
- Implemented comprehensive data validation and database integration system using **Python, JavaScript, PostgreSQL**, and **Flask**, processing and validating **10,000+ records** for graduate program admission applications
- Built advanced search, filter, and CRUD functionality with commenting system, improving data accessibility and collaboration for **20+ faculty and staff** members in the admission review process
- Developed automated reporting system generating data summaries and status reports, reducing manual report creation time by **75%** and enabling data-driven decision making for program administrators
- Created multi-format data export capabilities (CSV, PDF) with audit logging system, tracking **500+ user actions** for security compliance and providing offline analysis tools for stakeholders
- Architected scalable, secure web application following industry best practices, supporting concurrent access for **50+ users** and integrating with existing UBC systems for seamless workflow integration

Software Developer

Jan. 2025 – Present

University of British Columbia, Undergraduate Research Assistant

Makerspace Yellowknife, Remote

- Developed an automated membership management system using TypeScript, React Router v7, PostgreSQL, and Docker, optimizing user data tracking, user workshop registration and equipment bookings, Stripe payment processing, and event scheduling for **1,000+ users**
- Implemented a membership portal, enabling admins to manage workshops and equipments and for users to manage their memberships, view/register for workshops, and update personal details, reducing overhead for **10+ admins**
- Developed user authentication with **Prisma ORM**, ensuring secure access control for different user roles
- Conducted testing with **Vitest** and validation with **Zod**, improving system adoption and reducing user onboarding time
- Created admin control panel with real-time settings management and data export capabilities, reducing administrative overhead by enabling **10+ admins** to configure user experiences and generate presentation-ready reports
- Refactored LearnCoding's UI, a UBC learning platform, using **PHP, JavaScript**, and **CSS**, improving user experience for **500+ students**
- Developed comprehensive landing page with platform features, FAQs, and contact info, enhancing onboarding for **60+ faculty**
- Built admin functionality with **PHP** and **MySQL**, enabling instructors to toggle platform settings dynamically
- Completed Privacy and Risk Assessment documentation, transitioning LearnCoding from UBC VPN to public deployment
- Tested **Matomo Analytics** and CSV export across dev/production environments, ensuring data accuracy for academic reporting

Software Developer

Sept. 2024 – Dec. 2024

University of British Columbia, Directed Studies

Kelowna, BC

- Improved adaptive learning platform called LearnCoding, adopted by UBC's Faculty of Applied Science and UBC's largest computer science sections, benefiting **500+ students** with tools like code visualizers, sandboxes, parallel courseware, and badges
- Integrated **UBC Canvas API** and **Matomo Analytics** for automated grading, multi-platform access between LearnCoding and UBC systems, and user behavior tracking, replacing manual CSV processes and reducing instructor overhead

- Developed authentication features using PHP, JavaScript, Laravel, Blade, jQuery, and MySQL, securing access for **60+ faculty members**

Undergraduate Teaching Assistant

Sept. 2024 – Present

University of British Columbia

Kelowna, BC

- Facilitated interactive lab sessions and tutoring for over **60+ students**, employing hands-on exercises and real-time coding challenges to enhance understanding of machine architecture, Java programming, and general coding concepts
- Designed and graded assignments and exams for **300+ students** for the two largest computer science courses at UBC

PROJECTS

Ponotodoro 🔄 | JavaScript, React, Node.js, Next.js, PostgreSQL, Bootstrap, HTML/CSS

Aug. 2024 – Oct. 2024

- Developed a full-stack app integrating the Pomodoro technique with note-taking and to-do lists functionality to combine time management and task tracking techniques to improve personal productivity for **10+ users**
- Engineered frontend with **React** and **Bootstrap**, to the structure the platform's task management system
- Designed backend using **Node.js** and **PostgreSQL** for efficient data management and user authentication

Flight Hub 🔄 | Python, JavaScript, Flask, React, SQLite, Bootstrap, HTML/CSS, REST APIs

July 2024 – Aug. 2024

- Constructed a full-stack web application that streamlines flight offers by integrating **Amadeus** and **Twilio API**
- Produced a full-stack blog feature enabling users to create, edit, and manage posts regarding flight related topics
- Created frontend using **React** and **Bootstrap** and backend with **Flask** and **SQLite** for usability and security

ChatterBox 🔄 | JavaScript, React, Firebase, Tailwind CSS, HTML/SCSS

Jan. 2024 – Apr. 2024

- Developed a full-stack chat application replicating core Discord functionalities, including real-time messaging, user authentication, and channel management, facilitating communication for **5+ active users** across **5+ channels**
- Engineered Discord-like frontend using **React** and **Tailwind CSS** to enhance user experience and responsiveness
- Implemented backend with **Firebase** managing **100+ messages**, user data, channel info, and communication

MoodiJawoodi 🔄 | Java, HTML/CSS, MySQL, Docker, JDBC API

Oct. 2023 – Dec. 2023

- Produced responsive interface with **HTML/CSS** and Java with the **JDBC API** to enhance shopping experience
- Designed backend system with **Java** and **MySQL**, optimizing data handling and processing of products

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C, PHP, SQL, HTML/CSS, MIPS Assembly

Frameworks & Libraries: React, Node.js, Next.js, Express.js, Prisma, React Router v7, Redux.js, Flask, Laravel, Tailwind CSS, Bootstrap, jQuery

Developer Tools: Git, GitHub, Docker, Vite, Zod, Vitest, Postman, Visual Studio, Eclipse, Figma, Selenium, BeautifulSoup

Data Science & Visualization: Pandas, NumPy, Matplotlib, Plotly, smtplib, Jupyter Notebook

Scripting & Utilities: REST APIs, JSON, Turtle, Tkinter

Cloud & Deployment: Firebase, Vercel, Fly.io

Certifications & Courses: Udemy: The Complete 2024 Web Development Bootcamp, The Complete Python Pro Bootcamp