

Muhammad Hamza

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EDUCATION

University of Alberta

Bachelor of Science in Computer Science

Relevant Coursework: Algorithms, Machine Learning, Reinforcement Learning, Software Engineering, Database Management

Expected Graduation: June 2025

Edmonton, AB

EXPERIENCE

Data Analyst Intern

Cavendish Maxwell

May 2024 – Aug 2024

Dubai, UAE

- Deployed a Dockerized **Python** web scraper on **AWS** to extract geographical data for **100,000+** properties.
- Designed interactive **PowerBI** dashboards to visualize property price models, delivering actionable insights for comparative analysis across different models.
- Documented property management workflows, streamlining team onboarding and reducing training time by **30%**.

Business Analyst Intern

Interact Health Pro

Oct 2023 – Jan 2024

Toronto, Ontario

- Consolidated and integrated data from **Keap** and **Squarespace** into the **Groove** platform, leading to a significant **10%** reduction in operational costs and streamlining data management processes.
- Increased user sign-ups by **25%** by designing optimized landing pages for rehabilitation programs

Risk Analyst Intern

Al Ghurair Energy

May 2022 – Aug 2022

Dubai, UAE

- Collaborated with senior analysts to implement a **Value at Risk (VAR)** system, enhancing risk assessment accuracy and informing decisions for **\$4M** in trade books.
- Increased **P&L** reporting efficiency by **20%** through streamlined processes and automation.
- Optimized data migration from **Aspect** to **Dynamics 365**, improving data transfer accuracy and consistency.
- Oversaw trade operations for Petrochemicals, Gasoil, and Dry Commodities, ensuring compliance.

PROJECTS

TicketMSA | *Typescript, Next.js, Clerk, Convex, Stripe Connect*

- Developed a **real-time** queue system with smart queuing, position updates, and rate-limiting to handle high-demand ticket booking efficiently and securely.
- Implemented a seller dashboard to manage events, ticket sales, refunds, and user authentication, integrating **Stripe Connect** for secure payment processing and **Clerk** for multi-factor authentication.

Blogify | *Javascript, React.js, Node.js, Express.js, MongoDB, Redux, Firebase*

- Built a full-stack blog platform with the **MERN stack**, featuring Google authentication and user interactions like viewing, liking, and commenting.
- Optimized API performance by **15%** using **Postman** for testing and debugging, improving reliability.
- Created real-time analytics and admin tools to enhance content management efficiency.

AttendEase | *Java, Android Studio, Firebase*

- Developed a mobile app in an agile setting, enabling users to scan QR codes for event check-ins, leveraging **MVC** architecture and **Firebase** for real-time data storage with integrated geolocation functionality.
- Achieved **98%** code coverage by implementing unit tests and integration tests using JUnit and Espresso.
- Reduced software bugs by **50%** through a Continuous Integration and Continuous Deployment (**CI/CD**) pipeline with GitHub Actions, enhancing code quality via automated testing and deployment.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C/C++, SQL, HTML/CSS

Libraries: pandas, NumPy, Matplotlib, scikit-learn, Flask

Technologies: React.js, Next.js, Express.js, Node.js, MongoDB, MySQL, PostgreSQL, Django, Firebase

Developer Tools: Git, GitHub, Docker, Postman, VS Code, Figma, PyCharm, IntelliJ