

Ayaan Mohsin

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EDUCATION

University of Waterloo

Waterloo, ON

Honours Bachelor of Mathematics

Sep 2024 – Apr 2029 (Expected)

- Relevant Coursework: Calculus (MATH 137), Algebra (MATH 135), Computer Science (CS 115), Microeconomics (ECON 101)
- Prospective Major: Mathematics / Mathematical Finance

Karachi Grammar School

Karachi, Pakistan

A Levels

- Mathematics, Physics, Computer Science
- O Levels: Chemistry, Physics, Biology

EXPERIENCE

Cotton Care — B2B Supply Chain Platform

March 2026 – Present

Next.js, TypeScript, Prisma, PostgreSQL (Neon), Recharts

Remote

- Built and deployed a production multi-tenant web platform serving live order tracking, quality inspection, and analytics to B2B textile buyers, with role-based data scoping between admin and customer accounts
- Engineered an automated data pipeline (Google Apps Script → REST API → PostgreSQL) syncing production and inspection records from source spreadsheets in real time, replacing manual reporting
- Designed live analytics dashboards computing on-time-delivery %, defect rates, and factory allocation scores directly from production data, used by the business to drive sourcing decisions

Data Engineer Intern

May 2026 – August 2026

Law Offices Hass Bashir

Montgomery County, United States

- Built data pipelines that moved unstructured legal material, including court filings, case evidence, and client documents, into secure repositories the legal team could search and retrieve from
- Cleaned and structured large collections of emails, contracts, and case files to support e-discovery review and prepare the data for natural language processing (NLP) and machine learning analysis
- Handled confidential client and case data in line with the firm's legal confidentiality obligations and its data privacy and security standards
- Integrated the firm's internal case management software with third-party vendor APIs so that case records could be shared between systems without manual re-entry

Data Analyst Extern

Jan 2026 – Mar 2026

Amazon Externship Program

Remote

- Analyzed operational datasets using Python to identify inefficiencies in logistics workflows
- Built structured data tables and insights to support decision-making
- Presented findings and recommendations in a professional business report

Data Analyst Intern

Jun 2024 – Aug 2024

Shaheen Trading Co.

Karachi, Pakistan

- Analyzed business and operational data to identify trends and inefficiencies
- Developed structured reports to support data-driven decision-making
- Applied analytical thinking and problem-solving in a real-world business environment

PROJECTS

RELEVANT COURSEWORK & CERTIFICATIONS

Python Data Structures

Feb 2026

University of Michigan – Coursera

Completed with 100%

- Worked with lists, dictionaries, and tuples to store and manipulate structured data
- Implemented file handling techniques for reading and processing large datasets

Using Python to Access Web Data

Feb 2026

University of Michigan – Coursera

Completed with 99.46%

- Extracted and parsed data from web sources using APIs, URL encoding, and HTTP requests
- Processed real-world web data using Python scripting and data parsing techniques

Programming for Everybody (Getting Started with Python)

Dec 2025

University of Michigan – Coursera

Completed with 96.51%

- Built foundational Python programs using variables, loops, and conditionals
- Developed problem-solving skills through structured programming exercises

SKILLS

Technical: Python Programming, JavaScript/TypeScript, Next.js, PostgreSQL, Prisma ORM, Data Parsing, File Handling (CSV, Text Files), API Integration, REST APIs, URL Encoding, Data Extraction from Web Services, Lists/Dictionaries/Tuples

Core Skills: Problem Solving, Critical Thinking, Mathematical Reasoning, Academic Writing, Communication, Teamwork