

Minal Patel

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EDUCATION

University of Waterloo

Waterloo, Ontario

Bachelor of Science in Honours Chemistry (B.Sc.)

September 2020 - April 2025

- Relevant Courses: Analytical Instrumentation, Miniaturization and Nanotechnology including AI in Analytical Chemistry, Introduction to Computer Science 1, Statistics and Analytics in Sciences
- Senior Research Project: Investigation of specific and non-specific binding properties of Streptavidin and Green Fluorescent Proteins using fluorescence polarization for 8 months independently under Professor Juewen Liu.

PROFESSIONAL EXPERIENCE

ThermoFisher Scientific

Mississauga, Ontario

Scientist I

January 2026 – Present

- Conducted large-scale testing for various pharmaceutical products, conducting assay, dissolution, water content and bulk physical testing on multiple batches of Clinical-Trial-Material (CTM), Stability Control, or Commercial products.
- Introduced combined test tracker between multiple chemists, so that multiple chemists collaborating on the same project or test
- Managed testing schedules of pharmaceutical projects for clients such as Gilead, Cytokinetics, and Blueprint between 6 chemists

BBQ Village

Waterloo, Ontario

Assistant Manager

September 2024 – August 2025

- Generated highest sales and tips on front-of-house team consisting of 15+ members in a new, high-traffic Korean restaurant, increasing revenue generated and overall standard of service for staff, promoting to assistant manager within two months.
- Responsible for training and mentoring new team members on all service procedures and standards, improving staff performance.
- Accurately handled POS transactions and responsible for performing end-of-day cash reconciliation alongside closing procedures.
- Prepared and served high-quality alcoholic and non-alcoholic beverages, ensuring attention to detail and time management.

Bio Agri Mix

Mitchell, Ontario

Quality Control Chemist

September 2022 – December 2022 & May – August 2023

- Pioneered and independently led the method development and validation of an FTIR identification method for piperazine dihydrochloride, designing BAM's reference standard in full alignment with Health Canada's Schedule B USP monograph requirements, directly enabling regulatory approval for Canadian market launch of veterinary anthelmintic product.
- Conducted HPLC assays in Empower 3 to determine and report potency and impurity profiles of active pharmaceutical ingredients, with sample sets exceeding 50 samples for customer feeds, raw materials, or finished products with different validated methods.
- Responsible for out-of-specification and stability testing of raw materials and finished products by analytically retesting products, analyzing root causes of failure, and drafting compliance reports under GMP protocol standards to guide decision making.
- Performed standard chemical/physical tests on raw materials, finished products, soluble powders, and premixes using various methods, including appearance testing, pH, particle size, density, melting point, loss-on-drying, IR spectroscopy, UV-vis, microtracer analysis and Karl Fischer titrations to reach to ensure product quality with quality control specifications.

LEADERSHIP EXPERIENCE & Applied Strategy

Valorant Draft Circuit – Team Captain

April 2022 – Present

- Led various competitive Valorant teams apart of a free-to-play North American Valorant draft league for all skills levels, by developing, practicing, and executing strategies, making real-time adjustments and shot-calling based on opponent strategies.
- Coordinated team communication, led practices, coaching players, drafting strategies including executions, team composition, counters while maintaining a positive, fun, and goal-oriented environment to enhance performance and collaboration between complete strangers for various seasons.
- Achieved playoff appearances across all teams acting as the in-game leader, finishing 1st place multiple times throughout regular seasons, and achieving 2nd place in playoffs in the most successful season, with a 72%-win rate (26/36).

SKILLS, COMPETITIONS & INTERESTS

- Technical Skills: HPLC, GC/GC-MS, UV-vis, IR/NMR Spectroscopy, Microsoft Excel, Microsoft Office, GMP/GLP, Calibration
- Competitions: Placed 4th overall in Sports and Entertainment Team Decision Making marketing event in DECA Ontario, qualifying for the International Career Development Conference
- Projects & Interests: Content Creation, Competitive Gaming, PC Building, Coding, Photography, Reading, DJ/Live Music Mixing