

JACK GRACE

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SUMMARY

Software Engineer with a BSc in Molecular Biology & Biotechnology and a Computer Programming Diploma, bringing strong analytical and problem-solving skills from scientific research to software development. Proficient in full-stack technologies (React, Python/Flask, Node.js, Java, PHP), database architecture (SQL, PostgreSQL, MongoDB), REST/GraphQL APIs, and AWS cloud infrastructure. Unique dual background well-suited to biotech, health tech, and data-intensive product roles. Strong interest in Data Engineering and ETL pipelines.

TECHNICAL SKILLS

Frontend	React, JavaScript/TypeScript, HTML/SCSS, Vue, Blazor, Responsive Design, Accessibility (WCAG 2.1 AA)
Backend & APIs	Python, Flask, Node.js, PHP, Java, C/C++, C#, SQL/NoSQL, MongoDB, PostgreSQL, GraphQL, REST, ASP.NET
Cloud & DevOps	AWS (ECS, Lambda, RDS/S3, DocumentDB, DynamoDB), Docker, Git, CI/CD, Linux, Bash, Jupyter, MS Azure
QA & Testing	JUnit, JMeter, Selenium, Software QA methodologies

WORK EXPERIENCE

Tutoring & Learning Centre — George Brown Polytechnic

Toronto, ON

Academic Tutor

Aug 2025 – Present

- Deliver one-on-one and group tutoring in Mathematics, Physics, Chemistry, Biology, and Computer Programming to 20+ students per semester.
- Engineer custom study materials, problem sets, and debugging walkthroughs that translate abstract CS and STEM concepts into actionable frameworks.
- Consistently improve student grades by breaking down complex topics — from data structures and algorithms to biochemical pathways — into clear, testable mental models.

LifeLabs

Toronto, ON

Medical Laboratory Assistant

Mar 2024 – Aug 2024

- Processed and validated high volumes of patient specimens daily, ensuring data accuracy across requisitions prior to laboratory analysis.
- Collaborated across multiple lab departments to triage and route incoming samples from physicians, clinics, and hospitals, minimizing processing delays.

Mira Mira Restaurant

Toronto, ON

Restaurant Manager

Jun 2021 – Aug 2023

- Managed end-to-end operations for a high-volume restaurant including hiring, onboarding, scheduling, and performance oversight of 10+ staff.
- Drove revenue growth by designing and executing marketing and promotional campaigns, improving guest retention and measurably increasing sales.
- Built a semi-automated inventory management system to track stock levels and coordinate supplier orders, reducing manual overhead and order errors.

- Redesigned the tip distribution structure to improve transparency and equity, increasing staff satisfaction and reducing turnover.

PROJECTS

Reach – Social Events Platform

Python · Swift · MongoDB · DynamoDB · Flask · AWS ECS · React

- Designed, developed, and launched a social events platform across iOS and web, reaching 200+ active users with a 4.2-star App Store rating.
- Architected a scalable backend using Python + AWS (ECS, Lambda, S3, RDS/DocumentDB) enabling real-time event discovery, media storage, caching, and secure authentication.
- Containerized and hosted the web app across 5+ AWS services; implemented event creation flows, invite systems, analytics, and OpenGraph link previews.

Nether – Cross-Platform Messaging App

Java 17 · JavaFX · WebSockets · JmDNS · Maven

- Built a cross-platform desktop app (Windows & macOS) for real-time messaging and file sharing over local networks, with file transfer progress tracking.
- Implemented automatic device discovery using mDNS/Bonjour (JmDNS), WebSocket-based communication, and a JavaFX GUI; managed builds with Maven.

EDUCATION

George Brown Polytechnic

Ontario College Diploma — Computer Programming | GPA: 3.95 | Dean's Honour List

Toronto, ON

Sept 2024 – Apr 2026

University of Toronto

Honours BSc — Molecular Biology & Biotechnology Specialist | GPA: 3.7

Toronto, ON

Sept 2017 – Aug 2021