

# JACK GRACE

Toronto, ON

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## Summary

Software Engineer with a BSc in Molecular Biology and Biotechnology and a Computer Programming diploma, bringing strong analytical and problem-solving skills from scientific research to software development. Proficient in full-stack technologies including React, Python/Flask, Node.js, PHP, Java, with expertise in database architecture and design (SQL, MongoDB, PostgreSQL, NoSQL) and APIs (REST, GraphQL). Experienced with AWS cloud infrastructure, DevOps tools (Docker, Git, CI/CD), and Linux environments. Knowledge of Software QA methodologies and testing frameworks. 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

## Work Experience

### Tutoring & Learning Center - George Brown Polytechnic

Toronto, ON

Academic Tutor

Aug 2025 — Present

- Provide personalized academic support to college students across STEM disciplines including Mathematics, Physics, Biology, Chemistry, and Computer Programming
- Simplify complex scientific and mathematical concepts through tailored teaching approaches, helping students strengthen their understanding and improve academic performance.
- Develop custom study materials and problem-solving strategies to address individual learning needs and course requirements.

### LifeLabs

Toronto, ON

Medical Laboratory Assistant

Mar 2024 — Aug 2024

- Respond to client inquiries and worked in cooperation with different lab departments
- Unpack and sort incoming specimens received from sources including physicians, clinics, hospitals, and mobile LifeLabs technicians
- Confirm the accuracy of all patient information on requisitions and specimen samples, resolve problems or inaccuracies prior to testing, and perform required data entry

### Mira Mira Restaurant

Toronto, ON

Restaurant Manager

Jun 2021 — Aug 2023

- Responsible for hiring, training, and supervising staff. Creating employee schedules and maintaining cost-effective coverage while staying within labour budget
- Developed and implemented marketing and promotional strategies to increase restaurant presence and operational strategies to improve sales growth, profitability, and overall guest satisfaction
- Redesigned tip structure program to improve transparency and equality
- Developed a semi-automated inventory management and ordering system to organize delivery requests to various suppliers.

## Projects

### Reach - The Platform To Party | Python, Swift, MongoDB, DynamoDB, Flask, AWS ECS, React

- Designed, developed, and launched a social events platform across iOS and web, reaching 200+ users with a 4.2-star rating.
- Architected a scalable backend using Python + AWS (ECS, Lambda, S3, RDS/DocumentDB), enabling real-time event discovery, media storage, caching, and secure authentication.
- Created a web app version for easier user access; containerized and hosted utilizing 5+ AWS services.
- Implemented event creation flows, invite systems, image storage, analytics, and share-ready link previews (OpenGraph).

## Education

### George Brown Polytechnic, School of Computer Technology

Toronto, ON

Ontario College Diploma; Computer Programming - GPA: 3.95

Sept 2024 — Apr 2026

### University of Toronto, Department of Biological Sciences

Toronto, ON

Honours Bachelor of Science; Molecular Biology & Biotechnology Specialist - GPA 3.7

Sept 2017 — Aug 2021