Andrew W. Taylor

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EDUCATION

Bachelor of Computer Science **University of British Columbia** **Expected Graduation: 2026**

- Undergraduate Coursework: Data Structures and Algorithms; Computer Systems and Architecture; Multivariable Calculus; Matrix Algebra; Cognitive Systems Design; Models of Computation; Probability; Software Construction.

Bachelor of Science: Biology **Trinity Western University** **2024 Graduation**

- Undergraduate Coursework: Advanced Molecular Biology; Molecular Genetics; Evolutionary Theory; Cellular Biology; Biosynthesis; Biochemistry; Medical Microbiology; Marine Ecology; Plant Ecology; Vertebrate Physiology, Organic Chemistry.

EXPERIENCE

Developer & Research Assistant **Vitacore Industries Inc.** **May 2024 – August 2024**

- Developed and optimized state-of-the-art software using **C# (Unity)** and **Python**.
- Created mesh-based and node-based models of vasculature and designed a 3D scaffold with multiple arterial networks, leveraging computational techniques to improve performance for biomedical applications.
- Coded custom electronic systems, integrating hardware with programmatic control and interfaces.

Chemistry Lab Instructor **Trinity Western University** **Fall 2022 – May 2024**

- Instructed one lab section each semester, teaching critical chemistry techniques in qualitative and quantitative analysis, including titrations and gravimetric methods.
- Evaluated student reports and techniques, receiving excellent feedback.
- Designed data visualizations using Matplotlib and developed a website for instructors to create visualizations, leveraging **Python, Flask, CSS, and HTML.**

Lab Assistant **Trinity Western University** **Fall 2021 – May 2024**

- Prepared chemicals and equipment for chemistry labs, supporting faculty while ensuring adherence to safety protocols.
- Managed waste disposal in compliance with environmental regulations and maintained meticulous documentation.

Truck Driver, Labourer **ADR Environmental** **Summer 2021 – 2023**

- Operating various-sized trucks for a local junk-removal company, responsible for loading/unloading, supervising new employees, and providing excellent customer service.

Groundskeeper **Self-Employed** **Summer 2019 – 2023**

- Managed landscaping and maintenance for multiple properties, handling lawn care, seasonal clean-ups, and equipment operation with meticulous attention to detail.

SERVICE

- **Science in the Valley** (2022-2023). Facilitated university chemistry labs for visiting high school classes.
- **Discipleship-Group Leader** (2022 – 2023). Led weekly men's Bible study and engaged in fellowship with other student leaders, including training and weekly meetings with mentors.
- **Small Group Leader** (2015-2020). Led children's ministry at local church on a weekly basis.

CERTIFICATIONS

- **Standard First Aid CPR/AED Level C**: Issued August 2023
- **WHMIS (Workplace Hazardous Materials Information System)**

TECHNICAL SKILLS

Languages: Python; JavaScript; HTML; CSS; R; C#
Tools and Technologies: Node.js; GIS; Unity; MS Office;
Frameworks: React; Flask