

Anders von Mirbach

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Computer Science undergraduate (University of Lethbridge, Apr 2026) with experience in cross-ecosystem software development including React, Node.js, PostgreSQL, and Python. Background in database systems, systems programming, and performance benchmarking, with strong analytical skills and experience working with structured data and evaluating information for accuracy and relevance.

EDUCATION

University of Lethbridge, Calgary — *B.Sc. Computer Science* - April 2026

Coursework: Operating Systems, Programming Languages, Database Management Systems, Data Analytics. Focus on software development, databases, and AI with applied project work.

S.A.I.T., Calgary — *Diploma — Full-Stack Development* - August 2024

Fast-paced program covering full-stack development, Java and Python programming, and database design. Practical experience through collaborative projects and a capstone.

PROJECTS

[Learned Index Structures](#) | *Python · NumPy · B-Tree · RMI*

Implemented and benchmarked machine-learning-based index structures inspired by Kraska et al. (SIGMOD 2018). Developed a Recursive Model Index (RMI) and compared it against traditional B-Trees on large generated datasets, measuring lookup latency, memory usage, and prediction error.

[Cannabiz POS](#) | *React · Node.js · Express · PostgreSQL*

Developed a full-stack point-of-sale system for cannabis retail supporting inventory management, order processing, and transaction tracking. Designed relational database models and administrative workflows suited for day-to-day retail operations.

EXPERIENCE

Four20, Calgary — *Assistant Manager* - December 2022 – Present

- Manage daily store operations while balancing leadership responsibilities alongside full-time academic commitments.
- Maintain store performance by stepping into multiple operational roles as needed.
- Simplified product tag generation by developing Excel/VBA automation that integrates with Word mail-merge templates, enabling staff to produce standardized tags with a single click.

Kymand Incorporated, Calgary — *Team Lead* - January 2018 – Mar 2020

- Directed a small, high-performing sales team in a fast-paced environment.
- Trained and coached team members to consistently exceed sales targets.

Domino's, University of Calgary — *Manager* - June 2012 – Dec 2017

- Managed one of the top three busiest Domino's locations in Canada.
- Led payroll, scheduling, and staff coordination for a large team in a high-volume environment.

SKILLS

- **Languages:** Python, C++, Java, JavaScript, SQL
- **Web & Backend:** React, Node.js, Express, PostgreSQL, HTML/CSS
- **Systems Programming:** pthreads, POSIX IPC, process forking
- **Data & Analysis:** NumPy, pandas
- **Tools:** Git, GitLab, VS Code, Linux terminal, Excel/VBA
- **Collaboration:** Team leadership, cross-functional communication, problem solving