

# Benjamin Austin

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## EXPERIENCE

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### Data Engineer

Jun 2023 – Jun 2024

Wood Mackenzie

Calgary, AB

- Developed and optimized big data processing pipelines on Databricks, increasing data accuracy while reducing the compute time of certain computations by **over 50%**.
- Led data quality initiatives to stabilize and standardize the daily processing of **100M+** oil & gas production data points.
- Supervised a team of developers building infrastructure responsible for the automated collection of global energy data from **200+** unique sources.

### Junior DevOps Engineer

Sep 2021 – Jun 2022

MarineLabs

Victoria, BC

- Developed and enhanced features of a cloud processing pipeline responsible for handling real-time, high-resolution sensor data from a fleet of **40+** remote marine devices.
- Improved IAC coverage for multiple AWS stacks using CloudFormation and Python, promoting predictable and reliable infrastructure deployment.
- Implemented an automated CircleCI testing framework to validate the functionality of multiple Lambda functions, accelerating development cycle time by **over 25%**.

### Software Developer Co-op

Jan 2021 – Apr 2021

National Research Council Canada

Penticton, BC

- Researched and implemented a suite of software systems for scheduling, executing, and storing solar observation data for research projects at the Dominion Radio Astrophysical Observatory.
- Harnessed query features of a key/value database to dynamically monitor a subset of observation requests, reducing database traffic by **over 30%** while enabling real-time updates to the observation schedule.
- Streamlined communication among diverse endpoint devices by implementing JSON over HTTP interfaces with RESTful APIs, enabling unified communication through a standardized protocol.

### Quality Assurance Analyst Co-op

Jan 2019 – Aug 2019

ACD Systems

Victoria, BC

- Performed comprehensive quality assurance testing across a diverse range of products throughout their development lifecycle, providing confidence in releases, updates, and maintenance.
- Researched, advised, and ensured the functionality of a payment processing pipeline during its redesign for compliance with Europe's PSD2 regulations.

## EDUCATION

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### University of Victoria

Sep 2017 – Aug 2022

Bachelor of Software Engineering, Specialization in Cyber-Physical and Smart Systems

Victoria, BC

## SKILLS

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**Languages:** Python, C/C++, JavaScript, HTML, CSS

**Big Data:** Databricks, Apache PySpark, Kibana, Pandas, NumPy

**Cloud Computing:** AWS (Cloud Practitioner)

**Tools:** Git, Docker, Vim, CircleCI

**Workplace:** Jira, Confluence, Agile, Scrum, Kanban