

# Benjamin Austin

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Versatile and self-motivated software engineer with over 3 years of experience building and deploying data-driven solutions and infrastructure, working with cross-functional teams, and transforming simple requirements into quantifiable growth and revenue. Proven track record of mentoring others and managing requirements across teams, fostering productive environments and successful project outcomes.

## EXPERIENCE

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### Data Engineer II

Jun 2023 – Jun 2024

*Wood Mackenzie*

*Calgary, AB*

- Developed and optimized large-scale data pipelines on Databricks and AWS responsible for collecting and analyzing multi-terabyte upstream oil & gas data for **1M+** US wells in the lower 48 states.
- Worked closely with cross-functional teams to improve and validate data quality and accuracy, ensuring a industry-leading edge in our product.
- Stabilized and standardized the daily processing of **10M+** oil & gas data points by leading data quality initiatives.
- Supervised a team of developers building infrastructure responsible for the automated collection of global energy data from **200+** unique sources.
- Applied best practices for developing and deploying new microservices using AWS CDK, orchestrating deployments through an automated CI/CD pipeline with CodePipeline.

### Software Developer (Contractor)

Nov 2022 – Feb 2023

*University of Victoria, Department of Civil Engineering*

*Victoria, BC*

- Developed custom image processing tools in Python to extract temperature data from radiometric images and generate automated thermal performance reports, enabling users to assess the viability of thermography survey techniques.

### Junior DevOps Engineer

Sep 2021 – Jun 2022

*MarineLabs*

*Victoria, BC*

- Designed and deployed features of a cloud processing pipeline allowing for accurate aggregation and computation of real-time, high-resolution data from a fleet of **40+** marine devices.
- Improved IAC coverage for multiple AWS stacks using CloudFormation and Python, promoting predictable and reliable infrastructure deployment.
- Implemented an automated CircleCI testing pipeline to validate the functionality of multiple business-critical Lambda functions, accelerating development cycle time by **over 25%**.

### Software Developer Co-op

Jan 2021 – Apr 2021

*National Research Council Canada*

*Penticton, BC*

- Built and deployed a suite of software systems for scheduling, executing, and storing solar observation data for research projects at the Dominion Radio Astrophysical Observatory.
- Unified communication for web applications and IoT devices via HTTP APIs.

### 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.

## EDUCATION

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### University of Victoria

Victoria, BC

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

*Sep 2017 – Aug 2022*

## SKILLS

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

**Big Data:** Databricks, PySpark, Delta Lake, Pandas, NumPy, Kibana

**Cloud Computing:** AWS (Cloud Practitioner), Lambda, S3, DynamoDB, CloudFormation, CodePipeline, CDK, SNS

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

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