

Benjamin Austin

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Versatile and self-motivated software engineer with 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

Data Engineer

MarineLabs

Sep 2024 – Present

Victoria, BC

- Helping build the future of real-time and predictive coastal intelligence.

Data Engineer

Wood Mackenzie

Jun 2023 – Jun 2024

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.
- 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)

University of Victoria, Department of Civil Engineering

Nov 2022 – Feb 2023

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

MarineLabs

Sep 2021 – Jun 2022

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.
- Implemented an automated CircleCI testing pipeline to validate the functionality of multiple business-critical Lambda functions.

Software Developer Co-op

National Research Council Canada

Jan 2021 – Apr 2021

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

ACD Systems

Jan 2019 – Aug 2019

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

University of Victoria

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

Victoria, BC

Sep 2017 – Aug 2022

SKILLS

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