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

Data Engineer II
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 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)
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 asses 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.
- 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
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