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. Aspiring leader with proven experience mentoring others and coordinating complex requirements across teams and stakeholders, resulting in productive environments that drive successful outcomes.

Experience

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 asses 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%**.
- Deployed detailed logging across critical backend services, to allow efficient and precise investigations into events and alerts via Kibana-style dashboards.

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.
- Harnessed features of etcd key/value store to dynamically monitor a subset of observation requests, reducing database traffic by **over 30%** while enabling real-time updates to the observation schedule.
- Unified communication for web applications and IoT devices via HTTP APIs.

Education

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