Benjamin Austin

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EDUCATION

University of Victoria   **Sep 2017 – Aug 2022**
Bachelor of Software Engineering, Specialization in Cyber-Physical and Smart Systems   *Victoria, BC*

EXPERIENCE

Data Engineer   **Jun 2023 – Present**
Wood Mackenzie   *Calgary, AB*

- Developing and optimizing big data processing pipelines on Databricks, increasing data accuracy while reducing the compute time of certain steps by **over 50%**.
- Leading data quality initiatives to stabilize and standardize the daily processing of **100M+** oil & gas production data points.
- Supervising 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-resoultion 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.

SKILLS

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