Austin Tung

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EXPERIENCE

Caltrol   **October 2020 – Present**
Data Science & Systems Engineer | January 2023 – Present   *Irvine, CA*
Associate Systems Engineer | October 2020 – January 2023

- Designed and implemented reliable AWS infrastructure to support critical business operations, utilizing EC2 instances, VPCs, AWS IoT core, and other AWS services
- Built and optimized dashboards and visualizations for equipment maintenance and servicing using Grafana and SQL, which led to a 15% increase in equipment uptime and a 10% reduction in maintenance costs, enhancing data-driven decision-making processes
- Contributed to designing and implementing an IoT data streaming solution, enabling real-time data ingestion from up to 25 unique vibration sensors across three different sites into a private network.
- Implemented MES solutions utilizing a variety of MES software to optimize process control for automated life sciences manufacturing environments
- Designed interfaces between MES, manufacturing intelligence tools, PCS historians, and ERP systems
- Demonstrated expertise in GMP compliance, document control and archiving, material management, order management, equipment tracking, and recipe authoring, ensuring complete compliance with industry standards and contributing to successful audits
- Oversaw the training and management of new hires through shadowing and training sessions

AltaML   **January 2023 – April 2023**
Associate Machine Learning Developer (Contract Role in Partnership with Caltrol)   *Calgary, Alberta, Canada*

- Enhanced anomaly detection accuracy from 78% to 87% for Rotary Kilns utilizing computer vision and time-series algorithms
- Employed Python (Matplotlib, scikit-learn, Pandas, OpenCV) and Azure ML Studio (Azure Kubernetes Service) to tackle challenging problems in machine learning, covering data processing, exploratory data analysis, sampling, training, tuning, validating, and dashboarding
- Led a team of 3 machine learning developers and business solution consultants to research and develop an ML solution pipeline for clients across various organizations

Intellibricks   **September 2020 – April 2021**
Curriculum Developer   *Remote*

- Created programming curriculum for Python and Lua to teach children computer science fundamentals
- Facilitated mock teaching sessions of coding lessons, with teachers shadowing me to gain hands-on experience and learn how to deliver the curriculum I developed

CodeREV Kids   **January 2020 – April 2020**
Coding Instructor   *Huntington Beach, CA*

- Led and managed classrooms of 25+ students of varying ages and skill levels, teaching coding fundamentals

EDUCATION

Georgia Institute of Technology   **January 2024 – December 2026**
Master of Science, Computer Science   *Atlanta, GA*
University of California, Riverside   **September 2015 – December 2019**
Bachelor of Science, Computer Engineering   *Riverside, CA*

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Tableau Essential Training, Tulip Interfaces Advanced App Building
- **Skills:** Python, C++, C, Java, SQL, Statistics
- **Tools/Methods:** Agile/Scrum Methodology, Git Version Control, AWS, Azure, VScode, JupyterHub, Pytorch, Tensorflow, Unix/Linux Environments, Grafana, Tableau