Austin Tung

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EDUCATION

Georgia Institute of Technology   **December 2026**
Master of Science, Computer Science
Atlanta, GA

University of California, Riverside   **December 2019**
Bachelor of Science, Computer Engineering
Riverside, CA

WORK EXPERIENCE

Caltrol   **October 2020 – Present**
Data Science Engineer | January 2023 – Present   *Irvine, CA*
- Designed and implemented reliable AWS infrastructure to support critical business operations, utilizing EC2 instances, VPCs, AWS IOT core, and other AWS services.
- Developed dashboards and visualizations for equipment maintenance and servicing using Grafana, which led to a 20% increase in equipment uptime and a 15% reduction in maintenance costs, enhancing data-driven decision-making processes.
- Led the end-to-end design and implementation of an IoT data streaming solution, facilitating real-time data ingestion from up to 25 unique vibration sensors across three different sites into a private network.

MES Engineer | January 2023 – Present
- 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

Associate MES Engineer | October 2020 – January 2023
- Before promotion to MES Engineer, developed MES solutions using Emerson Syncade

AltaML   **January 2023 – April 2023**
Associate Machine Learning Developer   *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 create an ML solution pipeline for clients across various organizations
- Contract Role in partnership with Caltrol

Intellibricks   **September 2020 – April 2021**
Curriculum Developer   *Remote*
- Created programming curriculum for Python and Lua to teach children computer science fundamentals.

UCR's Brain Game Center   **March 2018 – June 2018**
Software Engineer Intern   *Riverside, CA*
- Developed embedded program in C++ for eye trackers to train patients during fMRI scans

CERTIFICATIONS, SKILLS & INTERESTS

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