Tevin Zhuo

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EDUCATION

Rensselaer Polytechnic Institute　　　　　　　　　　　　　　　　　Troy, NY
Bachelor of Science in Business Analytics　　　　　　　　　　　　　*Expected May 2025*

EXPERIENCE

Data Analytics Intern　　　　　　　　　　　　　　　　May 2024 – Aug 2024
Madison Square Garden　　　　　　　　　　　　　　　　　*New York, NY*
- Built an interactive data dashboard using Python (Dash/Plotly) and SQL to consolidate ticket, concession, and loyalty data from multiple RESTful APIs into a Snowflake data warehouse, enabling real-time insights on revenue, attendance, and inventory trends
- Led cross-functional effort to establish data quality standards by implementing automated validation scripts with Python and Snowflake stored procedures—**saving 10+ hours per week** on manual filtering and reducing error
- Implemented role-based access control with Django's authentication framework to secure sensitive customer and financial data, ensuring compliance with governance policies and mitigating regulatory risk

Data Analytics Intern　　　　　　　　　　　　　　　　May 2023 – Aug 2023
Ten Ichi　　　　　　　　　　　　　　　　　　　　　　　*New York, NY*
- **Drove $150,000 in revenue growth** by creating a Python-based data pipeline with Pandas to aggregate and analyze real-time customer data, subsequently visualized on a Tableau dashboard for targeted marketing insights
- Boosted operational efficiency by **40%** with an automated ETL microservice that ingested scanned invoices using Tesseract OCR and processed data via Python NLP libraries to generate dynamic Excel reports
- Accelerated invoice reconciliation by **80%** by integrating RESTful APIs with Python and SQL for persistent data storage, enabling real-time status tracking and streamlined collaboration between finance and operations teams

Open Source Developer　　　　　　　　　　　　　　　　Jan 2023 – May 2023
Rensselaer Center for Open Source　　　　　　　　　　　　　　　　*Troy, NY*
- Engineered Python analytics app for glacier monitoring, integrating OpenGeo APIs for geospatial data ingestion
- Configured Docker CI/CD pipelines on AWS to support **10,000+ daily data queries** with minimal downtime
- Enhanced performance with Apache Spark parallel processing and caching, reducing response times by **30%**

PROJECTS

Business Automation Pipeline | *AWS (Lambda, S3, boto3, EventBridge), Python, Requests, Pandas, smtplib*
- Engineered a dual ETL automation system that extracts purchase data from individual Google Sheets, transforms it with Pandas, and generates import-ready files for bulk upload on multiple seller-related platforms
- Integrated custom business logic to filter new products, update SellerBoard cost data, and produce detailed email reports (including cost change tables and new listing summaries) for a collaborative group of five ecommerce sellers—saving each roughly **14 hours per week** and boosting overall revenue

Submitty | *PostgreSQL, React, Docker, Twig, PHP, API, Git*
- Contributed to the development and maintenance of Submitty, an open-source course management and grading platform **supporting over 1,000 students**
- Built an upvote feature for course forum posts using PostgreSQL and React, enhancing user engagement

VirtualVNDR | *Python, Flask, AWS, Discord & Stripe API, MongoDB Atlas, Git*
- Developed a Discord marketplace hub with Python, Flask, and MongoDB managing **50 daily transactions**
- Boosted transaction success by **45%** through secure Stripe API integration for reliable B2C payments
- Ensured **99.9% uptime** by deploying an AWS EC2 instance for secure item data storage and uninterrupted service

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, C/C++
Other: Pandas, NumPy, Apache Spark, GeoPandas, Databricks, Snowflake, PostgreSQL, MongoDB, Tableau, Power BI, Plotly/Dash, React, AWS (EC2, S3, Lambda, EventBridge), Docker, Kubernetes, Git, CI/CD, Tesseract OCR, NLP, RESTful API, Excel, Microsoft Office