

# SAMUEL WANG

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## SKILLS

**Technical Skills:** SQL, Python, Tableau, Llama-Index, LLM, Java, HTML, R, Linux, D3.js, Photoshop, MS Office Suites

**Awards & Certifications:** Codecademy Python 3 Course (2023) | 2nd Place in VMware Explore 2023 Hackathon

## EXPERIENCE

### Biopharmatics (BPX)

Austin, TX

*Application Developer and Data Engineer*

Feb 2024 - Present

- Initiated a end-to-end data project for client analytics, leveraging Excel, Python, and D3.js for real-time data visualization and insights
- Developing an AI chatbot with dynamic UI, RAG knowledge graphs, and agent-based document retrieval for enhanced accuracy

### VMware

Austin, TX

*Tanzu Technical Marketing Engineer*

Jun 2023 - Jan 2024

- Spearheaded the development of an innovative AI chatbot that provides contextualized responses using data from a web scraper by leveraging a custom in-memory vector database with llama indexing while maintaining the user's privacy and confidentiality
- Presented at the VMware Explore Barcelona conference, showcasing AI chatbot coding capabilities to over 85 attendees, sparking significant interest for practical application in diverse fields. Led a team of 14 as Demo Captain for VMware Tanzu booths
- Engaged with clients at AWS re:Invent and Explore Las Vegas, emphasizing VMware Tanzu products' potential (VMware Tanzu Application Catalog & Tanzu Kubernetes Operations); spoke at vmLive, discussing new product updates in the partner-facing event
- Enhanced Tech Zone Website through system upgrade, attracting 32,000 new users and achieving over 100,000 views in 2023
- Analyzed Tech Zone statistics, identifying key trends in user metrics and acquisition channels, driving actionable marketing strategies

### Business Systems Integration Research Project

Boston, MA

*American Infrared Solutions*

Jan 2023 - May 2023

- Implemented a robust SQL database system, replacing an Excel-based process to streamline the critical "Boil-Off" phase in manufacturing, efficiently collecting and maintaining historical time and voltage data, crucial for quality control.
- Conducted comprehensive analysis of Dewar's insulative properties through calculating vital data points, generating extensive graphs and reports, and devising a user-friendly interface, enabling engineers to derive deeper insights into manufacturing processes
- Leveraged historical data and quality control measures to enhance the manufacturing process's overall performance

### Information Visualization Research Project

Jan 2023 - May 2023

- Created dashboards with interactive visualizations and filters (time, demographics, and geography) to showcase essential KPI metrics
- Utilized dashboards to highlight crucial business process durations and average processing times for data-driven decision-making

### VMware

Austin, TX

*Tanzu Technical Marketing Intern → Contractor*

Jul 2022 - Jun 2023

- Created various VMware Tanzu product pages, and beta tested the Tanzu Tech Zone Website in collaboration with the Tanzu Technical Marketing Team, boosting website traffic from 300 viewers to >10,000 monthly views, 3,500 visitors, and 1,500 customers
- Produced a blog post on problems identified with Azure Spring Apps quickstart guides, generating 1,600+ impressions online
- Engineered sample Spring Boot apps for deployment to Azure Spring Apps using Linux, VS Code, and Java in IntelliJ
- Orchestrated the Azure Spring Apps product page using Drupal as well as managed the overall site content

### AIRINC

Cambridge, MA

*Tax Intern Co-op*

Jun 2021 - Dec 2021

- Utilized extensive SQL to maintain research databases and complex internal tax algorithms for all AIRINC supported tax jurisdictions
- Collaborated internally with tax director and tax team in order to implement data manipulations to satisfy various client specific needs
- Translated changes in different countries' tax legislations into updates to algorithms and maintained documentations
- Customized and automated assignments' cost projections based upon up to date foreign countries' tax laws

## EDUCATION

### Northeastern University, D'Amore-McKim School of Business

Boston, MA

B.S. in Business Administration, Management Information Systems; Minor in Computer Science GPA: 3.5

Graduated: May 2023

**Interests:** Volunteering, Music, DJing, Guitar, Piano, Soccer, Snowboarding, Hiking, Traveling, Photography, Reading