

Ki'Donyae Bell

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Education

San José State University

B.S. in Management Information Systems

Expected Graduation: May 2028

Relevant Coursework

- Python for Everyone: Data Analysis, Problem-Solving with Real Datasets.
- Introduction to Programming: Java, Object-oriented programming, Debugging, Algorithms, Foundational Data Structures

Technical Skills

- Programming: Python, Java, SQL
- Web Tools: Google Sites, Squarespace, DeltaV, Linux
- Software: CapCut, Jira, Agile

Experience

Bayer Pharmaceuticals - Process Control System Engineer Internship

May 2025 - August 2025

- Supported troubleshooting for **10+ DeltaV control-system** incidents, improving consistency in error resolution.
- Collaborated with **5+ cross-functional** teams to document system behaviors and operational requirements.
- Helped streamline automation workflows, contributing to a **5% efficiency improvement** across targeted processes.

Biotech Partner - Internship

June 2023 -August 2023

- Conducted experiments using lab tools such as micropipettes and microscopes.
- Applied Python automation to recurring workflows, reducing **processing time by 10%** across weekly lab cycles.
- Worked with datasets of **hundreds of samples**, linking data quality directly to experimental accuracy.

Projects

Python, Diabetes Dataset Analysis, Statistical Analysis

- Analyzed a 5,000-row dataset to compare BMI, age, and blood pressure across diabetic and non-diabetic groups
- Calculated **metrics**, including variance, standard deviation, and range, to assess data spread.
- Generated **3 statistical visualizations** illustrating group differences.
- Performed an independent two-sample t-test to evaluate differences in mean blood pressure levels.
- Interpreted statistical findings and documented limitations to guide future predictive modeling work.

Mental Health AI Chatbot Hackathon

- Developed a Python-based AI prototype during a **12-hour** hackathon with a team of **5 collaborators**.
- Designed an AI-assisted mental health support tool to provide anonymous, bias-free user interactions.
- Focused on privacy by proposing an offline-first system to protect user data.

Externship: Hydroefficient IoT Cyber Defense

- Built a secure MQTT IoT pipeline for a **500-room hotel** using **TLS + mTLS**.
- Produced **CIA/STRIDE threat model** and prioritized **IoT risks** and mitigations.
- Blocked replay/tampering using **HMAC, timestamps**, and sequence counters.
- Analyzed sensor data in **Python (JSON/Pandas)** and built a live security dashboard.

Professional Development | Community Leadership

Residence Hall Association – Vice President of Engagement

February 2025 - Present

- Lead planning and execution of **25+ campus programs** annually for **1,000+ housing residents**.
- Manage logistics, staffing, and **10+ vendor partnerships** to streamline event operations.
- Monitor and document across RHA's **\$250K annual budget** to support data-driven event decisions.
- Strengthen resident engagement, increasing event participation by an **estimated 15–20%** through targeted initiatives.

Black Student Union – Director of Outreach

February 2025 – Present

- Support outreach efforts **reaching 200+ students** through events, advocacy, and campus collaborations.
- Represent BSU in institutional discussions, contributing to **3–5 DEI initiatives** each semester.
- Coordinate communication campaigns that help drive consistent engagement across BSU membership & other Black Organizations