

Socheata (Jasmine) Pok

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PROFESSIONAL EXPERIENCE

Software Engineer, NOV, Houston, TX

09/2023 – Present

- Spearheaded the successful execution of a **\$250,000** to enhance rig safety by preventing tool collisions.
- Modified legacy Java code to support system upgrades and customizations for rig operations.
- Used Oracle VirtualBox to simulate Single Board Computer (SBC) environments, rigorously testing software updates before deployment.
- Contributed to all phases of the **Software Development Lifecycle (SDLC)**, ensuring robust code, thorough testing, **Factory Acceptance Testing (FAT)**, and **Software Documentations**.

Sensor ASIC Automation Intern , pSemi, Austin, TX

01/2023 – 05/2023

- Developed LabView VIs for automated data acquisition with NI-DAQmx.
- Conducted statistical analysis on experimental data using R Studio to inform system improvements.
- Strategized automation, analysis, and execution of experiments, streamlining workflow processes.

PROJECT

Budgeting App | Django, PostgreSQL, AWS EC2 and RDS, React

- **Designed and developed** a budgeting web application using **Django**, featuring **JWT-based user authentication, income/expense management, and dynamic savings goal tracking**.
- Built a **RESTful API** to retrieve and manage budgeting data in real-time, supporting a dynamic dashboard.
- Containerized the application using **Docker**, implemented **CI/CD** pipelines with **GitHub Actions**, and deployed it to **AWS EC2 Linux instance** and **RDS** for hosting and scalability.
- Managed security configurations, firewalls, and permissions using **Linux CLI tools**.
- Collaborated with a front-end engineer using React to integrate APIs seamlessly and ensure a cohesive user experience.

Stock Market Data Processor | Python, SQLite, Streamlit, matplotlib

[View Live Project](#)

- **Designed and implemented** a modular backend system to process real-time and historical stock market data using **Python** and the **Alpha Vantage API**.
- Built a **Streamlit-based interface** for end users to interact with backend APIs and visualize stock trends, indicators, and analysis.
- Developed database operations with **SQLite**, ensuring efficient storage and retrieval of large datasets.
- Deployed the system to **Streamlit Cloud**, exposing APIs and user-facing features for public access.
- Implemented **data validation** and error-handling workflows to ensure API integration reliability and smooth user experience.

TECHNICAL SKILLS

- **Programming Languages & Frameworks:** Java, Python, C++, SQL, Django.
- **Databases:** PostgreSQL, MySQL, SQLite
- **Technologies & Tool:** RESTful APIs, CI/CD (Github Actions), Git, Docker, AWS (EC2, RDS), Streamlit, Linux CLI

EDUCATION

Bachelor of Science in Biomedical Engineering, University of Texas at Austin

May 2023

Concentration: Instrumentation - Software/Hardware Implementation

GPA: 3.70/4.00