

Socheata (Jasmine) Pok

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EXPERIENCE

- **NOV** Houston, TX
Software Engineer *Sept 2023 - Present*
 - Spearheaded the successful execution of a **250,000 USD project** to enhance rig safety by preventing tool collisions.
 - Refactored and optimized **Java** code, improving system performance and maintainability for rig operations
 - Used Oracle VirtualBox to simulate Single Board Computers (SBCs) environments, rigorously testing software updates before deployment.
 - Contributed to all phases of the **Software Development Lifecycle (SDLC)**, ensuring robust cost, thorough **unit testing**, **Factory Acceptance Testing (FAT)**, and **Software Documentations** in an **Agile** workflow using JIRA.
- **pSemi** Austin, TX
Sensor ASIC Automation Intern *Jan 2023 - May 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.

PROJECTS

- **Budgeting Web App** Backend Engineer
Django, PostgreSQL, ORM, AWS EC2, and RDS, Nginx, React
 - **Designed and developed backend systems** of 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 Web App** Full-Stack Engineer
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 visualization** and error-handling workflows to ensure API integration reliability and smooth user experience.

PROGRAMMING SKILLS

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

EDUCATION

- **University of Texas at Austin** Austin, TX
Bachelor of Science in Biomedical Engineering (Instrumentation); GPA: 3.7/4.0 *Aug. 2020 - May. 2023*