

JANICE LOK

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Entry-level Software Engineer with strong communication skills, attention to detail, and problem-solving skills. Basic experience in various programming languages and fundamental knowledge of QA methodology. Looking to launch my career in software engineering through apprenticeship or internship opportunities.

PROJECTS

Full Stack Development for Healthcare Database Migration | github.com/janice-lok/ui-nowpain

NOWPAIN Clinic, Palisades Park, NJ

Mar 2024 - Present

- Clean, update, and migrate patient databases from outdated MS Access and Excel files to SQL utilizing SQL, Flask, MS Access, and Python, lowering search and update time by 99.6% and 93% respectively, on average
- Construct and stylize a user-friendly locally-hosted website for receptionists to update, add, and edit patient information and book appointments utilizing Flask, Python, CSS, HTML, and JS
- Connect front-end interface to back-end SQL utilizing Psycopg in Python

Simulation Application for Flow Control System

NYU Tandon, Brooklyn, NY

Apr 2023 - May 2023

- Designed an application package with UI and control algorithm, using MATLAB programming, to rapidly and accurately simulate performance curves for a chemical engineering flow control system
- Developed, tested, and debugged application using Waterfall methodology to verify simulation accuracy, ability to determine control parameters, and ability to identify optimal parameters for desired system performance

EXPERIENCE

Operations Engineering Intern

ConEdison Clean Energy Businesses, Valhalla, NY

Jun 2022 - Dec 2022

- Automated data compression analysis for sets of 100 time-series data points using Python pandas library; integrated swinging door algorithm into code to return two compression parameters for each data point
- Debugged and troubleshooted over 30 code anomalies, significantly improving analysis speed and accuracy
- Managed workflow in Agile methodology environment, including collaboration with IT to push updated data compression standards to TEST/PROD, reducing daily archive size of data historian by 11%

Undergraduate Research Assistant

Modestino Laboratory at NYU Tandon, Brooklyn, NY

Aug 2021 - May 2022

- Assisted in development efforts to optimize an autonomous chemical process
- Collected data from real-time simulations of chemical reaction progress; aggregated and analyzed data through chemical analytical methods that identified different chemical components within a test sample
- Presented experimental results to research faculty and peers using data visualization

SKILLS

- Python, JavaScript, HTML, CSS, SQL | React.js, Git, Flask, PostgreSQL | MS Office
- Analytical thinking, problem-solving, communication and presentation, collaboration, time management
- Basic QA methodology (Agile and Waterfall)

EDUCATION

B.S. Chemical & Biomolecular Engineering, May 2023, NYU Tandon School of Engineering, Brooklyn, NY