

DEVIN LIU

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Experience

Software Engineer Intern

May 2024 - Aug 2024

State Farm Insurance

Bloomington, IL

- Implemented a SQL Redshift aggregate function with Python to process complex actuarial queries, reducing compute time and optimizing database performance, allowing for faster, more accurate insights into insurance data.
- Developed an unique fuzzy match search algorithm with React to handle internal naming conventions, improving user search time by 40% and improving search relevance.
- Enhanced a React-based drag-and-drop query management tool for retrieving insurance data, replacing manual SQL querying in DBeaver. Simplified complex data retrieval processes for actuaries and receiving strong user praise for usability improvements.

Software Developer Intern

Dec 2023

INFI

Chicago, IL

- Built a Python-based automation system that integrated APIs from Google Cloud, BigQuery API, and Alibaba SLS for matching device crash data with merchant information, boosting data mapping efficiency by 98%, spotting patterns in crash data previously missed.
- Designed a Google Sheets API system that displayed the automated results in real-time, simplifying data management for managers and SWEs.

Software QA

May 2023 - Aug 2023

INFI

Chicago, IL

- Created manual integration and acceptance tests for Android, iOS, and web apps, focusing on UI/UX issues and documenting over 100 bugs per sprint in Confluence Jira, reducing client incidents.
- Collaborated with international teams, product managers, and customers to identify and resolve issues, using tools like Git, Android Studio, Jira, and Confluence to streamline the bug reporting process and improve product quality.

Projects

AI Enhanced Job Board | React, Java, Spring Boot, Selenium, OpenAI API, MySQL, AWS (RDS, EC2)

- Designed an AI job site with React and Java Spring Boot, providing tailored, timely job recommendations for job seekers improving job match accuracy by 93%.
- Created RESTful APIs with Spring Boot deployed on AWS EC2, linking web-scraping logic to AWS RDS, ensuring smooth data flow to improve system response time.
- Automated job posting aggregation with Selenium-based web scraping service, overcoming data sourcing challenges.

Epilepsy Diagnosis Re-evaluation Site | Python, Flask, Pytorch, Numpy, MNE, Matplotlib

- Trained an ML model to reduce epilepsy misdiagnosis risks with 78% classification accuracy for abnormal EEG recordings, using PyTorch to fine-tune an EfficientNet-B0 model.
- Deployed the solution via Flask, enabling users to upload EEG data from frontend site for automatic re-review and confidence scoring, facilitating integration with electronic health records.

Kiosk Square[®] Payment Mapping Tool | React Native, Node.JS, WebSocket

- Automated the mapping of Square[®] payment devices to self-checkout Kiosks using React Native and Node.JS, leading to a 42.5% boost in mapping speed and increasing throughput.
- Integrated OCR with post-image processing to extract device SN and communicating to frontend with websocket, enhancing mapping accuracy by 50%

SWE Job Listing Bot | Python, PostgreSQL, AWS RDS, BeautifulSoup

- Scraped real-time data with a Python backend to develop a Discord bot for SWE job listings based on user-selected roles.
- Implemented intuitive commands and LeetCode prep posts, enhancing user engagement and interview readiness.

Education

Illinois Institute of Technology Chicago, IL

Expected: Dec 2025

Bachelors of Science in Computer Science, Masters in Computer Science

GPA: 3.8

Relevant Courses: Algo, Data Struct, ML, AI, Computer Vision, Dist Sys, Web App, Database, OS

Technical Skills

Languages: Python, JavaScript, Java, C, SQL

Technologies: React.JS, Node.JS, MySQL, MongoDB, AWS (RDS, EC2), Jest

Others: Numpy, Matplotlib, Pytorch, Selenium, Playwright, Git, Jira, Confluence

Extracurricular

Hackathons: Hack49, Climate Hacks, Hacktoon

Leadership: Table Tennis Club President and Event Coordinator, CSSA External Relations Officer