

DEVIN LIU

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Experience

Software Engineer Intern

May 2024 - Aug 2024

State Farm Insurance

Bloomington, IL

- Contributed to Query Management System to retrieve auto and fire insurance data using point-and-click web app approach to abstract querying process, receiving user praise for improved maintainability and readability.
- Researched and developed new fuzzy match search algorithm in React to handle internal naming conventions, improving user search time and results.
- Implemented new Redshift aggregate functions with React and Python, leading to faster database queries.

Software Developer Intern

May 2023 - Dec 2023

INFI

Chicago, IL

- Engineered an automated solution for daily matching of device crash data with merchant information, resulting in enhanced analysis accuracy and faster issue resolution.
- Developed automated script using Python, integrating Google Cloud and Alibaba services with APIs, leading to an 98.3% increase in data mapping efficiency for dynamic processing and analysis.
- Designed systematic, weekly data generation with Google Sheet API, reducing error, saving time, and increasing accuracy of reports.

Projects

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

- Programmed an OpenAI-powered location-based job recommending platform using 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.

Re:Eval Epilepsy | *Python, Flask, Pytorch, Numpy, MNE, Matplotlib*

- Trained a ML system for re-evaluating abnormal EEG recordings, using PyTorch to fine-tune an EfficientNet-B0 model, achieving 78% accuracy in reducing epilepsy overdiagnosis.
- Deployed the solution via Flask, enabling users to upload EEG data for automatic re-review and confidence scoring, facilitating integration with electronic health records.
- Sourced and processed multiple EEG datasets, ensuring consistency and reshaping/filtering data to improve model performance in classifying healthy vs. epileptic recordings.

Kiosk Square Payment Mapping Tool | *React Native, Node.JS, WebSocket*

- Designed an automated tool for mapping 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%

Education

Illinois Institute of Technology *Chicago, IL*

Expected: Dec 2025

Bachelors of Science in Computer Science, Masters in Computer Science

GPA: 3.8/4.0

Relevant Courses: Algo, Data Struct, ML, AI, Dist Sys, Web App, DB Org, OS, Sys Prgrmming, Discrete

Technical Skills

Languages: Python, Java, C, JavaScript, SQL, OCaml Assembly

Technologies: React.JS, Node.JS, MySQL, MongoDB, Android Studio, Git, AWS (RDS, EC2), Spring Boot

Libraries: Numpy, Matplotlib, Pytorch, Selenium, Playwright

Extracurricular

Hackathons: Hack49, Climate Hacks, Hacktoon

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