Dylan Le

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EDUCATION

University of Houston   Houston, TX

Bachelor of Science in Computer Science, Minor in Mathematics, (GPA: 3.92)   Aug. 2022 - May 2026
- Coursework: Data Structures and Algorithms, Software Design, Data Science, Natural Language Processing, Operating System, Database

EXPERIENCE

Nationwide Beauty Supply   Houston, TX

IT Support Specialist   Jun. 2022 - Sep. 2022
- Collaborated with manager to organize a supply warehouse, enhancing operational efficiency and inventory control.
- Assisted in operating and maintaining an online store to ensure smooth customer experience.

PROJECTS

DataGPT | Python, OpenAI, Langchain, Streamlit, PygWalker, OpenCV, Pillow   Github
- Developed a conversational interface allowing users to upload CSV or Excel datasets, ask analytical questions, generate plots, retrieve code snippets, and explore in-depth insights from the data.
- Integrated OpenAI's GPT-4o-mini model with Pandas DataFrame agent from LangChain to facilitate data analysis and code generation.
- Integrated Pygwalker to provide intuitive drag-and-drop interface, allowing users to generate plots and interact with data visualizations without writing code.

Amazon Review Search Engine | Python, NLTK, Gensim, Word2Vec, BERT, Scikit-learn   Github
- Developed a search engine capable of retrieving relevant reviews from over 200,000 Amazon product reviews based on user input.
- Designed and evaluated the effectiveness of various NLP techniques, including Boolean Search, Topic Modeling, Word Embeddings, and transformer-based models, to enhance the relevance and accuracy of extracted reviews.
- Trained and integrated a classification model to analyze reviews and user input sentiment, achieving up to 90% in accuracy
- Ultimately achieved up to 80% relevance in review extraction with the combination of Word Embedding and Sentiment Classification.

Hotel Booking Application | Java, Spring Boot, React.js, TypeScript, TailwindCSS, MySQL, AWS RDS, AWS S3   Github
- Developed a full-stack hotel booking application using Spring Boot for backend and React.js for frontend.
- Implemented authentication and authorization using Spring Security, JWT, and email verification to ensure secure user access.
- Utilized AWS RDS and AWS S3 for database hosting and image storage to manage data for more than 200 entities of users, bookings, and rooms.

Medical Volunteer Hub | Python, Django, React.js, JavaScript, TailwindCSS, PostgreSQL, AWS RDS, Docker   Github
- Led a team of 4 to design and develop a volunteer portal, efficiently assigned over 200 volunteers to 100 volunteer activities.
- Developed backend using Django and PostgreSQL, hosted on AWS RDS, and created a responsive frontend with React.js.
- Built a mechanism that automatically matched users with relevant events based on their location, skills, and preferences and sent notifications to users' emails about application approvals, recommended events, event updates, and reminders.

Real-time Message Application | Next.js, React.js, TypeScript, TailwindCSS, MySQL, Prisma, Azure   Github
- Developed an application delivering real-time messaging, voice chat, and video calling using Next.js, React.js, and Socket.IO.

EXTRACURRICULARS

Walmart's Advanced Software Engineering Virtual Experience | Java, Python, Data Structures, Database, Data Munging   Link
Hewlett Packard Enterprise's Software Engineering Job Simulation | Java, Spring Boot, REST API, Unit Test   Link

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, SQL, NoSQL

Frameworks and Libraries: Spring Boot, Django, Next.js, Express.js, Node.js, React.js, Jest.js, Socket.IO, Prisma, TailwindCSS, Bootstrap, Scikit-learn, NLTK, Gensim, OpenCV, Pillow, Streamlit, JUnit, Mockito

Tools: AWS S3, AWS RDS, Azure, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Docker