Atmin Sheth

713-550-6281 ● atdevmn@gmail.com ● [Linkedin](#) ● [Github](#)

EDUCATION

Bachelor of Science, Software Engineering - The University of Texas at Dallas **Dec 2023**

EXPERIENCE

AI Engineer – eXp Realty **Mar 2023 – May 2025**

Dynamic software engineer and AI specialist with hands-on experience across the full development lifecycle—front-end, back-end, and testing. Passionate about building AI-powered proof of concepts that streamline real estate processes, enhance agent workflows, and deliver tangible business value.

- Led development of 6 AI-driven proof-of-concepts; 3 approved for production, including a house-building chatbot.
- Delivered AI solutions for onboarding, document error detection, and personal report analysis via chatbots.
- Built a React event calendar integrated with Google Calendar; styled using React Calendar for visual appeal.
- Created a chatbot on Botpress to assist agents with daily tasks using a minimal-input interface.
- Handled full-stack tasks for eXp agents, including front-end features and SQL model integration for accurate support.
- Hosting an application on AWS, using DynamoDB and an S3 Bucket for storage
- Load balance applications to manage traffic flow
- Fine-tuned text-to-SQL models to ensure precise responses for Agent Platform.
- Built a communication bridge between Flutter UI and backend, enabling real-time, event-driven interactions.
- Trained a computer vision model to identify and flag document issues; fine-tuned for accuracy.
- Designed conversational flows to guide backend responses based on user interaction.
- Validated 500+ API call logs using SQL to ensure payload integrity and troubleshoot discrepancies.
- Advanced prompt engineering for ChatGPT plugins to detect and correct mismatched data fields.

Skills Used: Python, Openai, Botpress, JavaScript/Typescript, REST API, Postgres, SQL, Next.js, React.js, Flutter, AWS, OpenSearch, Miro, Jira, Agile

Projects

Argo Scheduler- Senior project at UT Dallas **Jan 2023 - May 2023**

An automated task scheduler that can automate tasks like maintenance and tests for a system using cron expressions, Quartz scheduler, and Java Spring Boot

- Built with Java and Spring Boot, the project provides RESTful APIs for managing calendar events and schedules efficiently.
- Follows a modular structure separating calendar and scheduler logic, promoting maintainability and scalability.
- Uses a local SQLite database (`ScheduleDB.db`) to persist event data, enabling quick local testing and development.
- Implements basic scheduling logic, including event creation, retrieval, and conflict checks, to simulate a real-world calendar system

Skilled Used: HTML, Java, Springboot, SQL.

EmotionGPT - Artificial Intelligence Society Mentorship at UT Dallas **Feb 2023 - May 2023**

Led a team of four in creating an advanced speech-based emotion detection model. Guided data cleaning, model training, and performance analysis, achieving high accuracy through pitch intensity evaluation and spectrogram analysis. Demonstrated how precisely identifying user emotions could enhance various applications from customer service to mental health monitoring.

- Mentored a team of four students in developing an advanced emotion recognition system, leveraging pitch intensity analysis and spectrograms to accurately identify emotions in speech signals. This innovative approach aimed to enhance user experiences across various applications. Under my guidance, the team achieved a training accuracy of 95.5% and a test accuracy of 92.9%, demonstrating the model's effectiveness in real-world scenarios.
- Giving guidance in the backend to clean and then training of data. Helping the students identify the data and results.

Skill Used: Python, Huggingface, Kaggle, Tensorflow

LangPortal - Artificial Intelligence Society Mentorship at UT Dallas   **Sep 2022 - Nov 2022**

Architected a language learning platform leveraging advanced transformer tokenizers for seamless English-to-Spanish translations. Achieved a strong BLEU score through a dictionary-style translation framework, integrating model deployment on AWS SageMaker. This approach delivered efficient, high-accuracy translations and significantly improved learner engagement.
- LangPortal is a language learning platform. The translation model utilized an advanced transformer tokenizer to tokenize each word, enabling effortless translation of English sentences to Spanish using a dynamic dictionary-style framework.
- Developed and deployed a sophisticated language translation model for LangPortal, utilizing HuggingFace tokens for backend integration. Achieved a notable 54 BLEU score, indicating high translation accuracy and effectiveness. Successfully hosted the model on AWS, integrating it with SageMaker to seamlessly connect with the front end, enhancing overall system efficiency and user experience.

Skills Used: HuggingFace, Python, Pytorch, AWS service

Shopping Cart - Personal Project   **Mar 2022 - Mar 2022**

Applying React and Material UI knowledge to create a mock e-commerce website, to practice frontend and API calling skills.
- Created an e-commerce site with a UX of Material UI using a fake shopping API.
- Implement cart functionality to add/remove items and calculate the total price.

Skills Used: React, TypeScript, Material UI

YJA App - Young Jains of America Non-Profit   **Sep 2021 - Jun 2022**

Implemented a secure payment solution via the Stripe API for over 750 users, preventing multiple accidental charges. Designed a real-time notification system that alerts security teams when users need immediate assistance, enhancing safety and responsiveness for event participants.
- Implemented the Stripe API that ensured more than 750 users were not charged multiple times in one transaction.
- Developed a button system that sends a notification to the security team, letting them know a user needs help and providing their information.

Skills Used: React, JavaScript, Expo

TECHNICAL SKILLS
- **Programming Languages**: Java, C++, C#, Python, JavaScript/TypeScript, Bash…
- **Frameworks & Tools**: React, Node.js, .NET, Expo, Next.js, Botpress, GitHub CoPilot, HuggingFace…
- **Databases & Cloud**: Postgres, MongoDB, AWS, etc.
- **AI/ML Libraries**: TensorFlow, PyTorch, HuggingFace, Keggle, OpenAI