Abigail Smith

(832)-401-5913 | msabigailrsmith@gmail.com | msabigails.github.io

Education

The University of Texas at Dallas   May 2024
Bachelor of Science in Computer Science   *Cum Laude*

Experience

Software Development Tutor   February 2025 - Present
Independent   *Bentonville, AR*
- Developed and continuously updated JavaScript curriculum tailored to each client's learning goals and skill progression, enabling 100% assignment completion and 3+ portfolio-ready applications
- Guided clients in building real-world applications, providing project-based learning and practical experience in software development

Software Engineer   May 2024 - January 2025
ExxonMobil - Digital Technologies Team   *Dallas, TX*
- Owned end-to-end development of weekly report, consolidating high-volume daily data from Azure SQL Database to deliver actionable insights department-wide
- Harmonized data by mapping billions of rows from Azure SQL Database to Snowflake DBs, created comparative queries, evaluated and reconciled schema differences, and scripted cross-platform data merges to enable unified analytics

Software Engineer Intern   May 2023 - May 2024
Pioneer Natural Resources - Completions Analytics Team   *Dallas, TX*
- Created an emission historical and forecasting model with an analytical dashboard using SQL, Python, cloud infrastructure, and data analytics to improve company-wide communication regarding net-zero progress
- Refined, documented, and mapped automated ETL processes for backend systems, creating a visual workflow that linked workflows, data sources, and reports, improving debugging and saving the team multiple hours weekly

Software Engineer Intern   May 2022 - August 2022
Pioneer Natural Resources - Drilling Analytics Team   *Dallas, TX*
- Collaborated with engineers to define relevant metrics, validate model outputs, and document pipeline workflows, improving cross-team understanding and adoption
- Integrated structured data from Azure SQL and real-time telemetry from Intelie and other third-party tools into a unified analysis pipeline, enabling comprehensive well performance analysis

Projects

DotIO | *JavaScript, UI/UX, Consulting, React.js, Machine Learning*   Spring 2024
- Collaborated with capstone cohort to design and implement custom front end components, connect with backend via API calls, and develop user analytics, computation, and dashboards, improving full stack website scalability

Redwood | *Machine Learning, AI, JavaScript, Key Word Extraction, FastAPI*   Fall 2023
- Finalist at the Fall 2023 Hack Princeton hackathon
- Extracted ideas from 100s of pages of text into interactive node graphs with dynamically reactive UI using custom algorithms and FastAPI backend
- Engineered a keyword extraction and topic ranking algorithm in Python to parse academic PDFs, generating directed learning graphs that visualize concept dependencies
- Deployed full-stack application to AWS Amplify, enabling users to upload and analyze documents online

The Greenhouse Mission | *Google Cloud, React Native, SQL, Flask, Svelte*   Fall 202
- Awarded 2nd place in SLB Challenge and 1st place in Best .Tech Domain Name at HackRice 13
- Developed React Native mobile app and Flask backend to optimize daily schedules for carbon efficiency, integrating SQL database and Whisper API for event management and voice transcription
- Designed and deployed product landing page on Google Cloud, showcasing user impact and app features

Achievements

Hackathons - Winner at 5 University Hackathons	2023-2024
Finalist at Hack Princeton	Fall 2023
2nd Place at HackUTA	Fall 2023
1st Place at Axxess UTD	Spring 2023

Skills

Concepts and Methodologies: Software Engineering, Agile Development, Object-Oriented Programming (OOP)
Languages: JavaScript, CSS, HTML, PHP, Java, SQL, Bash, C++, Python, C
Frameworks and Libraries: Node.js, Tailwind CSS, React.js, React Native, Flask, JUnit, Svelte
Tools and Technologies: XAMPP, Microsoft SQL Server, MySQL, Bootstrap, Git, REST API
Data Science and AI: Spark, Databricks, NLP, Machine Learning, Hadoop, TensorFlow, Pandas