Max Shroyer

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Experience

Wells Fargo, Software Engineering Intern, *June 2025 - August 2025*
- Developed ML-powered trade reconciliation system working in real time for foreign exchange markets
- Engineered data pipeline processing millions of daily trades from multiple systems of record using Splunk API, internal servers, and Kafka to create training datasets and enable real-time model inference
- Developed a Python package to handle SSL OAuth package for certificate distribution

Vigilus, Junior Software Engineer, *September 2022 - May 2025*
- Developed and deployed web and mobile applications using Vue, React, Next, React Native, TypeScript, and Tailwind, delivering high-quality solutions for multiple clients.
- Implemented and maintained CI/CD pipelines with AWS and Firebase, ensuring seamless deployment and integration of applications.

Chevron, Software Engineering Intern, *May 2024 - August 2024*
- Developed an in-house solution for displaying 3D reservoir data with Three.js and Angular front-end, including functionality to visualize static and time-based data more easily, saving the team $12,000 annually
- Built Python back-end with Flask and Blender to decompile eclipse EGRID, INIT, and UNRST files and return formatted STL files for front-end visualization, deployed and hosted using Azure Services

Chevron, Software Engineering Intern, *May 2023 - August 2023*
- Gained working knowledge of Azure services including Logic Apps, SQL Databases, Automated Data Factories, CI/CD Pipelines with YAML, and Databricks
- Designed and deployed scalable data pipeline to automatically ingest and process third-party information for analysis and reporting, saving 200 hours annually

My Interview, Web Development Intern, *February 2022 - May 2022*
- Used Vue.js, JavaScript, and SCSS to implement new features, improve responsiveness and streamline user experience across all devices
- Implemented Google Analytics leading to improved understand of customer behavior

Research

- Dalton Diez, Max Shroyer, James Ghawaly Jr. **"Asynchronous Symbolic Encoding for Neuromorphic Network Intrusion Detection."** *International Conference on Neuromorphic Systems (ICONS '25).* *Accepted, not presented*

Education

Bachelor of Science, Mathematics and Computer Science, Louisiana State University, **3.6 GPA**
- Undergraduate Researcher with Dr. James Ghawaly focusing on Artificial Intelligence, Large Language Models, Neuromorphic Computing
- Member of Google Developer Student Club and Habitat for Humanity
- Presidents List, Dean's list

Certification in Web Development, Big Idea Bootcamp, *August 2021 - December 2021*
- Developed proficiency using Javascript, HTML/CSS, React, and Firebase

Skills

Languages: TypeScript, JavaScript, Python, Java, C, C#, SQL **Frontend:** React.js, React Native, Next.js, Vue.js, Angular, Three.js, Tailwind CSS, HTML/CSS **Backend:** Node.js, Flask, FastAPI, REST APIs **Cloud & Tools:** AWS, Azure, Firebase, Kafka, Splunk, Git, Docker, CI/CD Pipelines **Data & AI:** Pandas, NumPy, Machine Learning, RAG, LLMs, Data Visualization