Max Shroyer

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Professional Experience

AI Solutions Developer, Louisiana State University Human Resources, *August 2024 - Present*
- Developed and implemented an AI-powered applicant shortlisting tool, using **GPT-4o-mini** refined with internal documents processed with **RAG** and **BM25** techniques, integrated fully using the Workday API
- Optimized the hiring and candidate search process for the 6000+ faculty and staff at Louisiana State University
- Accurately predicted candidates that would be the best fit for hire and provided suggestions to hiring managers

Junior Software Engineer, Vigilus, *September 2022 - Present*
- 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.
- Conducted peer reviews and **QA testing** for code written by interns and junior developers.

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

Software Engineering Intern, Chevron, *May 2023 - August 2023*
- Gained a working knowledge of Azure services including **Logic Apps**, **SQL Databases**, **Automated Data Factories**, and **CI/CD Pipelines** using **YAML**, and **Databricks**.
- Developed and deployed a scalable data pipeline to automatically ingest third-party information and then sort and process the information for further analysis and reporting, saving 200 hours of work annually and ensuring critical business data was up-to-date and accurate.

Web Development Intern, My Interview, *February 2022 - May 2022*
- Used **Vue, JavaScript,** and **SCSS** to develop platform responsiveness and improve user experience across all devices.
- Implemented **Google Analytics** into the product to better understand customer behavior and areas for improvement.

Education

Bachelor of Science, Mathematics and Computer Science, Louisiana State University, *August 2022 - May 2026*
- Undergraduate Researcher with Dr. James Ghawaly focusing on artificial intelligence, large language models, software development
- Member of Google Developer Student Club, Engineering Diversity Ambassadors, and Habitat for Humanity
- Dean's list | Fall 2022, Spring 2023, Spring 2024
- 3.6 GPA

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

Skills

Programming Languages: TypeScript, JavaScript, Python, Ruby, Java, Ocaml, C, C#, Rust
Programming Frameworks: React.js, React Native, Next.js, Vue.js, Angular.js, Three.js, Node.js, Flask
Other: LLM Finetuning, LLM deployment, Firebase, Azure, AWS, Agile, Git, Figma, UX/UI, Jira, HTML/CSS, SQL