

# Max Shroyer

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## Experience

### 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.
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## Projects

### AI Shortlisting Tool, 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
- Accurately predicted candidates that would be the best fit for hire and provided suggestions to hiring managers

### Headhunter and Recruiting Platform, Personal Project, August 2024 - Present

- Built an AI-powered job platform using **Next.js**, **Firebase**, and **Python** - implemented **BM-25 ranking algorithm** to match candidates with jobs based on skills
  - Developed the full-stack application that enables one-click applications for job seekers and provides AI-powered candidate shortlists for recruiters. Instantly matching candidates to recruiters
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## 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**
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## Skills

**Programming Languages:** TypeScript, JavaScript, Python, Ruby, Java, Ocaml, C, Rust

**Programming Frameworks:** React.js, React Native, Next.js, Vue.js, Angular.js, Three.js, Node.js, Flask

**Other:** LLM Deployment, Prompt Engineering, Firebase, Azure, Agile, Git, Figma, UX/UI, Jira, HTML/CSS, SQL