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Career Objective

Obtain an early-career position working with experienced software engineers, engaging in a competitive environment where I can play an integral role in the team's success.

Education

Louisiana State University | M.S. & B.S. in Computer Science (GPA: 4.0) | May 2026

Technical Skills

Languages: TypeScript, JavaScript, HTML/CSS, Dart, SQL, Java, Python

Frameworks & Libraries: React.js, Node.js, Spring Boot, Svelte, React Native, Flutter

Cloud & Enterprise Systems: AWS, Docker, Terraform, RESTful APIs, WebSockets, Linux, Git

Security & Backend: Web Security (OWASP Top 10), BetterAuth, Session Management, Drizzle ORM, MySQL

Applied LLM & AI Tools: OpenAI API, LlamaIndex, ChromaDB, ReAct Agents, Claude CLI, Gemini

Work Experience

Undergraduate / Graduate Research Assistant | Louisiana State University | February 2023 – Present

- Engineered predictive data models using Python and MATLAB to analyze field samples and integrated Computer Vision algorithms to automate organic material identification.
- Engineering an end-to-end sonar system featuring CHIRP technology and a Flutter-based control interface to enhance data interpretation and precision for industrial dredging operations.
- Collaborated within a multidisciplinary team to streamline research workflows and achieve project milestones through effective technical communication.

Software Developer | Vigilus | May 2022 – October 2022

- Developed real world coding skills using React, React Native, Material UI, TypeScript, and Restful APIs in a competitive work environment while working on websites like the Vigilus website or apps like Gretna Live to organize a city's events and provide the citizens a place to view them on mobile.
- Performed development tasks within an Agile/Scrum framework, contributing to rapid sprint cycles and meeting strict project deadlines
- Collaborated in a fast-paced, competitive environment to resolve complex technical challenges and ensure on-time delivery of production-ready software.

Projects

Comite Hills Homeowners Organization

- Architected a secure, full stack members-only web application using SvelteKit, featuring authenticated access to financial transparency timelines, neighborhood-watch updates, and community news feeds.
- Implemented robust session-based authentication using BetterAuth and MySQL with Drizzle ORM, enforcing strict route protection so non-authenticated users can only access public auth pages.
- Automated cloud infrastructure and deployment using Terraform to provision an AWS VPC, RDS database, and Secrets Manager, containerizing the app with Docker on AWS App Runner.

Agentic Architecture Governance System

- Engineered an automated architecture governance platform using LlamaIndex and Python to mitigate "Architecture Drift" by auditing local source code against internal Markdown design manifestos.
- Implemented a multi-tool ReAct agent utilizing GPT-4o and ChromaDB to orchestrate a "think-act-observe" loop, enabling automated file classification, semantic chunking, and CLI-based linting.
- Developed specialized AST-like compliance logic supporting Svelte and Dart frameworks, generating structured Markdown audit reports that flag structural flaws and hardcoded security credentials.