Prasant Koirala

koiralaprashanta10@gmail.com 601-658-1969 prasantkoirala.com.np Github LinkedIn

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, C, SQL
Frameworks: React, Node.js, Express.js, CSS3, HTML5, Zustand

Experience

Web/App Development Intern   Optimal Answers, LLC
Jun 2024 – Present

- Collabrated the the Engineering and Marketing team to enhance the company's Public Website and the Main Software Website.
- Optimized navigation time in the Software by connecting table/database Navigation button to UI

SAT Teacher   Nepalese Encounters Education Consultancy
Jan 2024 – Jul 2024

- Taught SAT to multiple student groups.
- Helped students raise SAT scores by an average of 20% (from 1100 to 1320).

Projects

Chell - A shell made in C   Mar 2025

- Designed and implemented a lightweight Unix-like shell in C with cross-platform support for Windows and Unix-based systems, featuring custom command execution, built-in commands, command history, and pipeline support.
- Engineered a custom command parsing and execution system that efficiently handles user input, demonstrating expertise in low-level system calls and process management.

Personal Status - App made using C++   Jun 2025

- Built real-time desktop monitoring system using C++ and Windows API that tracks development activity and pushes status updates to portfolio website via secure REST API
- Developed cross-platform web integration with threaded architecture, local HTTP server, and Vercel API endpoint featuring API key authentication and JSON data exchange

Song Review   Jan 2025

- Made an website to review songs available in Spotify. Users can give ratings to songs and leader board is available for the songs according to their genre.
- **Stack:** React, Node.js, Express.js, MySQL

Education

The University of Southern Mississippi, Hattiesburg, MS
Bachelor of Science in Computer Science   GPA: 4.0
Course Works: Python, C++, Calculus