JIAWEI WENG

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Objective

Seeking a backend Software Development Engineer full-time position

Education

University of Florida, FL   2021 – 2025
B.S. in Computer Science

Technical Strengths

Computer Languages	C++, C, Java, Python, SQL, TypeScript
Frameworks	React, Node.js,Next.js
Tools	Git, Clerk, Google Cloud Platform, Supabase, Prisma (ORM), Docker, MongoDB, RESTful API

Course Project

Cache Simulator | *Simulation Program* | 2023
- Developed a cache simulator using C++ to read a memory access trace from a file, determine whether each memory access is a hit or a miss, and calculate the overall hit rate.
- It simulates different main memory and cache sizes, cache associativity (direct mapped, n-way associative, fully associative), and replacement methods (LRU, FIFO).

Custom Binary Search Tree | *Data Structure Program* | 2022
- Created a custom BST using C++ that can store student names and IDs, providing operations to add, remove, and search students in the tree.
- Supports printing student data in different traversals (in-order, pre-order, post-order), allowing easy organization and retrieval based on IDs.

Side Project

AIDE | *Full-Stack Developer* | September 2024 – Present
- **Database Design:** Leveraged Supabase (PostgreSQL + Prisma) for schema setup and migrations, utilizing soft delete to retain historical records and enable easy data restoration.
- **Permissions:** Combined Clerk for login/session handling with role-based checks on the backend, ensuring multi-layer authorization for sensitive operations.
- **RESTful API :** Provided core CRUD endpoints, implemented an "edit-lock" strategy to prevent simultaneous writes, and used transactions for atomic updates.
- **AI Content Streaming:** Integrated third-party LLM services while injecting "tool calls" (e.g., weather, calculator) into the generation flow, returning responses in streaming mode for real-time front-end rendering.
- **Deployment:** Hosted everything on Vercel's serverless environment.