Evan Emsley

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Portfolio Site: http://evan.emsley.us

Education

Purdue University West Lafayette, IN   (GPA: 3.94/4.0) — *class of 2024*

- Pursuing Bachelor of Science in Computer Science, Dec 2024 Graduation

Experience

Full Stack Developer: Sprift Shopping (spriftapp.com) — *2023*

- Secondhand clothing mobile app that allows users to swipe through clothing listings similar to the swipe system of Tinder. Users can both upload clothing to sell as well as swipe through listings and purchase clothes.
- The system is built with React Native, Next.js, and Prisma. Integrated user authentication with a service called Clerk and payment processing with a service called Stripe. I worked on the UI (React Native/Expo), API routes (Next.js/Prisma ORM), and Database Design (SQLite/Prisma ORM).

Relevant Coursework in React, Javascript, Java, C, C++ — *2021-23*

- Extensive experience in Java Object Oriented Programming including server/client packages, extensive experience with React Native / Javascript programming for both mobile and web development. (OOP, Data Structures, and Software Engineering courses)
- Extensive experience in C, C++, and command line tools with a large focus on data structures, dynamic memory allocation, and shell scripting. (C Programming and Systems Programming courses)

Projects

Shell Program (C++, Yacc/Lex Parsing) — *2023*

- Developed a shell program which parses and executes commands with many capabilities of the UNIX shell such as wildcards, piping, preserved command history, and input/output file redirection.

Noter Social Platform (React, NextJS, PostgreSQL) — *2023*

- Web-based twitter clone where users can post "notes", follow other users, and share notes with other users.
- Full-Stack application with React, Next.js, and PostgreSQL/Prisma ORM, code available on my portfolio site or GitHub.

Memory Allocater (C) — *2023*

- Developed a version of malloc from scratch, calling sbreak() and keeping track of heap memory in a freelist with fenceposts marking the boundaries and headers on each block of available or allocated memory

Xinu Process Scheduler (C) — *2023*

- Updated the vanilla Xinu priority-based process sceduler to use dynamic priority sceduling based on CPU usage. If a process uses its full time quantum, its priority is lowered and its quantum is increased. If it yields the CPU, its priority is raised and its quantum is decreased.

Skills

- React, React Native, TypeScript, JavaScript, HTML, CSS and TailWind
- Next.js, Java, C, C++, SQL/MySQL/PostgreSQL, RESTful API conventions, Database ORMs
- Proficient with Git/Github and command line tools for managing monorepos (npm/pnpm/yarn)
- Familiar with Agile/Scrum project management styles

Activities

- Lead Guitarist for Arboretum the Band — *2020-present*
- Campus House Ministries Worship Team — *2023-present*
- Phi Delta Theta Fraternity — *2021-present*