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

Allegion: DevOps Intern   *2024-present*

- Lead the automation of a monthly report of several engineering and business metrics for seven software products, which will save tens of hours for software teams each month.
- Leveraged a cronjob Azure Function to ingest data from software tool API's into Elastic Cloud to create a live dashboard.
- Adapted a relational SQL schema to a Document-style NoSQL schema in Elastic Cloud
- Built several scripts with Python to aggregate data from our software tools (SonarQube, BlackDuck, Azure DevOps, Site24x7)
- Gained extensive experience in C# OOP, Python for data processing, working with API's and Authentication protocols, Azure functions, and Azure-hosted SQL databases

Sprift Shopping: Full Stack Developer (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).

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 wild-cards, 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++, C#, SQL/MySQL/PostgreSQL, RESTful API conventions, SQL ORMs
- Proficient with Git/Github and command line tools for managing monorepos (npm/pnpm/yarn)
- Very familiar with Agile/Scrum project management

Activities

- Lead Guitarist for Arboretum the Band   *2020-present*
- Phi Delta Theta Fraternity   *2021-present*