Daniel Gray

Software Developer

Portfolio LinkedIn GitHub

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Professional Experience

Software Engineer: Google TVC through DEPT
2021/11 – present

- Fullstack engineer on internal Google projects that are used by thousands of Google employees
- Technical work has included handling sensitive data, significant automation, AI integration, UI/UX design, API design, accessibility concerns, and developing from scratch an interpreter for a custom SQL/regex syntax
- **Channel lead**: I directly liaison with Google clients, act as product manager, oversee relevant tickets (bugs, feature requests), and have directed an engineer under me
- '**Typescript Readability**': I review/approve TS code in the Google codebase
- '**Raybeam Kudos**': award from my manager for productivity and project ownership

Web Developer: Independent contractor
2022/07 – 2023/09

- **Missio**: homepage for AI startup built in NextJS / Tailwind, and deployed in Vercel
- **CUF**: website for small non-profit ran by a family friend built with a LAMP+JS stack

Corporal in USMCR: Company C, 6th ESB, Peoria, IL
2020/05 – 2023/03

- Monthly drills, directed marines underneath me

Software Engineering Skills

- **Languages**: Typescript, Java, Go, Javascript, Python, SQL, Java, CSS/HTML, PHP, Dart, Protobuf, Bash, PowerShell
- **Frameworks**: Angular, Jasmine, Flask, Gin, Next.JS, Spring, Jest, JUnit, Svelte
- **DB tools/DBMS**: MySQL, PostgreSQL, SQLite, Alembic, PhpMyAdmin, Firebase, Redis
- **Software tools/libraries**: GCP, Git, RxJS, NodeJS, Gunicorm, Kubernetes, React, Lit Components, Tailwind, Webpack, SASS, Vim, Maven, Docker

Education / Certificates

GCP Professional Cloud Developer: certified 2023/06

Graduate (Physical Chemistry): UIUC
2019/08 – 2021/08

- **GPA**: 3.93/4.00 (21 GPA credits, 47 research credits)
- **Project**: Design a functional model of the nitrogenase active site in a known, globular protein using software-aided rational design
- Wrote a Python program to search the protein database for proteins with a pocket of an input size / shape
- **Teaching Assistant**: On "List of Teachers Ranked as Excellent by their Students"

Undergraduate (Chemistry, Math): Franciscan U
2015/08 – 2019/05

- **GPA**: 3.99/4.00 (170 credits)
- **Awards**: Dan Egan award for top B.S. student of 2019, Chemistry award for 2019
- **Thesis**: Programmed from scratch Monte Carlo and molecular dynamics simulations of simple water models to examine the thermodynamic effects of macromolecular crowding
- **Household Coordinator**: Essentially a dorm wing head: organized events, recruited new members, etc.

Personal Projects

Game Lobby: web-based game lobby

- Game lobby where users can chat, join rooms, and play esoteric card games
- Built in TS (with Webpack), Go (with Gin), and PostgreSQL; deployed using GCP

Exact Calculator: CLI calculator returning exact results

- Demonstrates interpreter skills of (tokenize => parse => evaluate) with a versatile AST which allows programmatically trivial extensions of math functionality
- Built in Go with no external dependencies

LAN Tetris: desktop multiplayer Tetris-like app

- Simple implementation of a Tetris-like game with support for 2-player multiplayer over LAN
- Built in Java with the Processing library, JUnit tests, and JavaFX