David Gawel

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EDUCATION

- **DePaul University** — Chicago, IL
  B.S., Computer Science; GPA: 3.9 — *Sep 2019 - Nov 2022*
  - **Competitive Programming Team:**
    Advanced to the ICPC North American Championship after successfully solving multiple advanced data structure and algorithm problems with a team of three.
  - **Relevant Coursework:** Optimized C++, Optimized C++ Multi-threading, Distributed Systems

WORK EXPERIENCE

- **Motorola Solutions** — Schaumburg, IL
  Software Engineer Co-Op — *Sep 2022 - Nov 2022*
  - **AWS Lex Testing:**
    Created a testing framework that verified the responses of an AWS Lex voice bot. Tests were specified within a CSV, allowing for **quick and easy test creation with no programming knowledge needed.**
  - **Backend Security Update:**
    Implemented an instance of HashiCorp vault and integrated it with Jenkins. Used vault to **securely handle and store secrets used in user experience testing.**
  - **Tech Stack:**
    Python, AWS, HashiCorp Vault, CI/CD
- **Motorola Solutions** — Schaumburg, IL
  Software Engineer Intern — *Jun 2022 - Sep 2022*
  - **User Experience Testing Framework:**
    Developed a new user experience testing framework with Python and Selenium. **Reduced the development time of new tests to a matter of hours**, while increasing their robustness, speed, and reliability.
  - **ASP by Solution View:**
    Made a new feature that allows users to view the status of integrations between services at a glance, **eliminating the need to individually search the status of each integration.**
  - **Tech Stack:**
    Python, Selenium, MySQL, Agile Development, SDLC/SDTC

PROJECTS

- **Flight Reservation Website** —— **Spring Boot, React** —— Github/Website
  1. Group project to make a flight reservation website allowing users to search for the cheapest flights available and **book them within minutes**.
  2. Worked on user authentication using Google OAuth 2.0, and getting flight pricing info from the Amadeus flight API.
  3. Implemented a **Spring boot server on an AWS EC2 instance** with a **MySQL database**.

- **Migthy Mancala TUI Game** —— **Rust** —— Github/Crates.io
  1. A TUI Mancala game built in Rust that you can play right in the command line!
  2. Features an easy-to-use text UI with **multiple game modes and difficulties to play with**.
  3. Uses the **cursive TUI** library for graphics and is written in **idiomatic Rust for clean and concise code**.

SKILLS

- **Programming Languages:**
  Python, Java, C++, SQL, Rust, JavaScript, TypeScript, WebAssembly
- **Development Tools:**
  Linux, Git, Perforce, BitBucket, AWS, Jenkins, Selenium, Spring Boot, React, MySQL, HashiCorp Vault, Java Debugger, Visual Studio, REST API, CLI, Confluence
- **General Skills:**
  Bilingual in Polish and English