

William Ilekka

Email: wileka@depaul.edu

Linkedin: <https://www.linkedin.com/in/williamileka/>

Github: <https://github.com/ileka2468>

Website/Portfolio: <https://ileka2468.github.io/website/>

Fiverr: <https://www.fiverr.com/cggaming732>

Education

• DePaul University - Sophomore

Chicago, IL

Bachelors in computer science GPA: 3.7

May 2026

Relevant Courses: Intro to CS, Data Structures, Java Workshop, Intro to Web Computing, Web Development I, Computer Systems I + II, Discrete Math

Masters in Software Engineering (Combined Degree)

May 2027

Relevant Courses: Applied Algorithms and Structures, Concepts of Programming Languages

• Thornton Fractional South High School

Lansing, Illinois

High School Diploma; GPA: 3.9 (5/514 - Top 5% in class)

Aug 2018 - May 2022

Relevant Courses: AP Computer Science Principles

Skills Summary

Languages & Frameworks

Python – 3 years | **JavaScript** – 3 years | **Java** – 2 years | **C** - 1 year | **SQL** – 1 year | **HTML** – 3 years | **CSS** – 3 years | **React** – 1 year | **Scala** - 1 year |

Skills

- Web Development (Front-End): HTML, CSS, JavaScript, React, Tailwind CSS
- Web Development (Back-End): Django, Express JS, Next JS, Python FastAPI, Remix JS
- Web Scraping: BeautifulSoup, Selenium, Puppeteer
- Databases/ORMS: MySQL, SQLite, MariaDB, MySQLAlchemy, Postgress
- Object-Oriented Programming (OOP): Java
- Version Control: Git
- Automation: Python Automation Scripting, UI Path Studio, UI Path Orchestrator

Experience

CME Group

Software Engineer Intern (Summer 2024)

Chicago, IL

June 2024 - September 2024

- **FinTech Challenges:** Scheduled to participate in CME's Summer Internship, focusing on addressing complex challenges in financial technology through hands-on experience in electronic trading platforms, risk management systems, and front-end trading interfaces.
- **Application and System Development:** Expected to engage in application development, system design, and the research and proof of concepts phases for innovative FinTech solutions, with a special emphasis on cloud infrastructure and blockchain technologies.
- **Project Contribution and Innovation:** Anticipated contribution to a range of projects aimed at enhancing CME's ultra low-latency electronic trading and financial technology solutions, under the guidance of industry experts.
- **Mentorship and Career Development:** Anticipated participation in the Software Engineering Fellowship track, designed to emphasize accelerated learning and career development. This includes dedicated mentorship from seasoned industry professionals to bridge the gap between academic studies and practical application in the technology sector.

DePaul University

CDM Grader

Chicago, IL

March 2024 - Current

- Work closely with faculty members to evaluate and grade assignments and quizzes in Web Development and Computer Science classes.
- Offer comprehensive and positive feedback to learners, assisting them in grasping programming fundamentals, data structures, Java coding, JavaScript, and database programming.
- Engage in meaningful dialogue with professors to tackle unique student issues and play a role in the ongoing enhancement of course content.

Fiverr

Freelance Web Developer – [Linked Profile](#)

Remote, US

December 2020 - March 2023

- **UI Design:** Participated in collaborative efforts with clients to develop user interfaces that are clean and uncomplicated, as well as experiences that are uncomplicated and simple.
- **Robust Client Instruction Documentation:** Made instructive videos and descriptive instructions and documentation for end-user ease of use and for future system scalability.
- **jQuery and Chrome Automation API:** Used jQuery for automation scripts to simulate user clicks and events, then migrated to chrome automation API.
- **Customer Support:** Dealt heavily in customer support and remote access troubleshooting for clients, helping clear up and resolve client issues.

St. Margret's Episcopal Church

Tech Coordinator (Volunteer)

Chicago, IL

August 2021 – February 2023

- **Developed and maintained** website front and back end using the Express JS framework and Postgres database, ensuring all content is up to-date and relevant.
- **Performed routine updates** and maintenance as well as implementing changes and adding features at the request of church leadership.
- **Created and managed donations** and online funding campaigns, resulting in increased financial support for the church.
- **Managed and operated church live streams**, providing remote access to church services for members and visitors.

- **Maintained and installed projectors and TV screens**, ensuring smooth operation during church services and events.
- **Created motion graphics** for church services, adding visual interest and enhancing the overall experience for attendees.
- **Managed service projections and media**, ensuring that all visual elements were displayed accurately and on-time during services.
- Acted as the **primary point of contact** for all technical issues and troubleshooting needs.
- Collaborated with other church leaders to **develop and implement new ideas and strategies** for enhancing the church experience through technology.

Projects — All projects can be found at my [GitHub](#)

- **Fully Deployed Church Management Website**: Developed an express web application for St. Margaret's Episcopal Church that serves as a responsive website and content management system. Management functionality includes automated newsletters and mailing lists, Custom written APIs and database designs for sending welcome emails, and automated creation of PowerPoints and visuals for church services organized by year and month, all accessible through the website at <https://www.stmargaretschicago.org/>. (Jan '23)
- **Fiverr Clone Web App (TaskRabbit)** – Designed and built a fully functional web app Fiverr like marketplace using the Node JS Express framework. Functionality includes, user accounts, product filters, product search, checkout system, cart system, seller view, buyer view, business side admin tools, admin dashboard, and business statistics. Designed frontend with a server-side rendering approach using EJS and CSS, backend was implemented with Express JS and MariaDB database. (Jan '23)
- **AI React JS Note Taking App**: Currently developing a React-based AI note-taking web application that enhances hastily written lecture notes. Features include lecture voice recording to fill gaps between what the student writes and what the lecturer said, AI-driven content refinement, and automated creation of flashcards, quizzes, and study materials. Designed for optimal learning, it streamlines note organization and maximizes academic retention. (Aug '23)
- **Computer Vision Aruco Marker Drone Tracking**: Developed a program that allows drone cameras to track binary squares (Aruco Markers) and estimate pose for drone following, and precision hovering. (Sep '22)
- **Machine Learning Video Gwame Assistance** – Using the Python FastAI library and Jupyter Notebooks, I trained an AI model using Python and FastAI to recognize and complete the skill checks in the video game 'Dead by Daylight.' This enabled the player to perform better in the game by accurately clicking a button at the precise moment, a challenging mechanic in the game. (Feb '23)
- **Speech To Text Transcription and Speech Complexity Analysis**: Developed a program that transcribes .wav audio files of any length and analyzes speech complexity using the Flesch Reading Ease and the Flesch Kincaid Grade Level formulas. (Aug '22)
- **Portfolio Website**: Designed and built a personal portfolio website that contains my projects and socials. Working contact form using Email.js was hosted using AWS S3 buckets, currently hosted on GitHub pages. (July '22)
- **Minesweeper** – Using Python and Tkinter I built a GUI based fully functional and feature rich minesweeper game, features include smart clicks (implemented with recursion), game timer (implemented with multi-threading), flag tracker. (Jan '23)
- **Protiviti Robotic Process Automation (RPA) Project** – As part of a project with Protiviti, a global consulting firm, I worked with mentors to design a Robotic Process Automation (RPA) bot. The goal was to solve a hypothetical business problem for a movie rating company by automating a time-consuming manual process. Our solution involved building a bot that could retrieve movie names from an Excel

spreadsheet, look up the ratings on IMDB, and then create a new spreadsheet with the updated ratings. This RPA solution effectively eliminated the need for manual updates, saving the company significant time and resources.

Honors and Awards

- 20k/yr. [CME Group Foundation Scholarship](#)
- Fiverr Top Rated Seller Award - May 2021
- [P33 Strong Start Certification](#)