

# Piotr Brozek

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## EDUCATION

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**University of Illinois at Chicago | Chicago, IL**

**B.S. in Computer Science | GPA: 3.9/4.0**

**May 2026**

**Relevant Courses:** Data Structures, Programming Practicum, Languages & Automata.

## TECHNICAL SKILLS

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**Programming Languages:** C/C++, JavaScript, TypeScript, HTML/CSS, Python

**Technologies & Frameworks:** React, Node.js, Express.js, TailwindCSS, Next.js, Chakra-UI, Nodemon, Linux/Unix operating systems, VirtualBox, Valgrind, GoogleTest, GDB Debugger

## PROJECTS

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### AI Powered Stock Dashboard

**Aug. 2024**

- Implemented web scraping for over 100 news articles, filtering and feeding data into a custom AI server via Axios, enabling AI-driven stock predictions to assist users in making informed buying decisions.
- Developed an AI-powered dashboard with a Node.js backend using Express and a React frontend with Tailwind CSS, Vite, and Chakra UI, integrating NewsAPI and Finnhub API for real-time news and stock data analysis.

### OpenStreetMap

**May 2024**

- Developed a mapping system utilizing two hashtables to organize and store open-source map data.
- Implemented Dijkstra's algorithm on graph data to efficiently determine the shortest path between two points.

### Search Engine

**Feb. 2024**

- Designed and implemented a document search engine in C++ using fundamental data structures, focusing on sets and maps.
- Implemented an efficient document search engine that supports complex queries.

## EXPERIENCE

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**Full-Stack Software Engineer Intern | Electronic Visualization Laboratory | Chicago, IL**

**June 2024 - Aug. 2024**

- Developed and maintained multiple web applications, utilizing modern technologies such as ViteJS, React, TailwindCSS, NodeJS, and TypeScript to create responsive and dynamic user experiences.
- Designed and implemented innovative projects, including a movie website using Fetch API, an AI-powered chatbot, and a stock dashboard integrated with AI algorithms for real-time data analysis.

**Lifeguard | Schaumburg Park District | Schaumburg, IL**

**May 2022 - Aug. 2023**

- Mentor and train newer lifeguards, providing valuable guidance and support to enhance their skills and foster a cohesive team environment.
- Supervise swimming activities at the aquatics facility and ensure that policies and safety procedures are followed.