

Mursal Fahimi

mfahimi@depaul.edu | [linkedin.com/in/MursalFahimi](https://www.linkedin.com/in/MursalFahimi) | github.com/Mursssal

EDUCATION DePaul University — Chicago, IL

B.S. in Computer Science, Political Science & Mathematics

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++, SQL (PostgreSQL), HTML/CSS, Kotlin

Frameworks & Libraries: React, Node.js, Flask, Jetpack Compose

Tools & Platforms: Git, GitHub, VS Code, MongoDB, Neon, Linux, Jira, Notion, Google/Microsoft Suite

Concepts: REST APIs, data structures & algorithms, OOP, agile workflows, IoT systems

EXPERIENCE

Research Assistant | DePaul Migration Collaborative (DMC) — Chicago, IL Jan 2025 – Jul 2025

- Collected, cleaned, and organized qualitative and quantitative data from interviews and reports using structured templates and spreadsheet tooling
- Analyzed housing and food access data across Chicago and Vienna migrant communities, synthesizing findings into research deliverables
- Designed and maintained data tracking systems to support team research initiatives and community outreach efforts
- Coordinated with government officials and community members, translating interview data into structured, usable formats

Data Analysis Intern | Central Asia Institute — Remote Jun 2024 – Sep 2024

- Collected and cleaned datasets from 40+ schools across South Asia, standardizing records for downstream analysis
- Built and maintained relational databases for long-term data management and organizational reporting
- Researched and evaluated data management tools and software solutions for non-profit use, producing a recommendation report for leadership
- Created reusable data entry templates adopted by the organization for future data collection cycles

PROJECTS

ChicagoOS | React, TypeScript, Tailwind CSS, MapLibre GL, Spring Boot

- Developed a responsive smart city dashboard using **React, TypeScript, Tailwind CSS, and MapLibre GL**.
- Integrated live **weather, traffic, and public transit** data from Chicago public APIs using Axios and custom React hooks.
- Built an interactive mapping interface with searchable landmarks, analytics dashboards, and reusable UI components.
- Began developing a **Spring Boot REST API backend** to support user authentication and future PostgreSQL integration.

Greenhouse Monitoring System — Raspberry Pi · Python · SQL Sep 2025 – Nov 2025

- Engineered an IoT monitoring system using Raspberry Pi to track temperature and soil salinity in real time
- Built an OLED display interface for live sensor data visualization and integrated automated email alerts for critical threshold breaches
- Used Python for sensor data processing and SQL for structured data logging and historical querying

Android Projects — Java · Kotlin · Jetpack Compose github.com/Mursssal

- Built multiple Android apps including a loan payment calculator (Java) and a Jetpack Compose notable items viewer (Kotlin) with custom data models and dynamic UI rendering
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- Applied OOP design patterns including custom classes, Array Lists, and event-driven UI logic across projects

ACTIVITIES & INTERESTS

President, Afghan Students Club at DePaul University | Writer on Substack covering women in tech, film, and fashion