

PROFESSIONAL EXPERIENCE

Innovare - Social Innovation Partners

Jun 2024 – Present

Full Stack Software Engineer

Chicago, IL

- Built a self-service data ingestion and refresh pipeline using Flatfile and BigQuery, reducing customer data turnaround from 3 days to under 15 minutes for CSVs with hundreds of thousands of rows.
- Designed and implemented a Redis-based caching layer (Google Memorystore) for Cube.js and AG Grid queries, cutting API response times from 20s to under 1s and reducing monthly infrastructure costs from \$3.5K to \$400.
- Created a multi-engine cohort generation system, enabling school administrators to create dynamic student cohorts through natural-language queries. This eliminated a key user pain point of manual student discovery and improving intervention response times.
- Implemented application performance monitoring and alerting using GCP, Sentry, and k6/Grafana, significantly reducing average time to detect and debug production issues.
- Authored and maintained Confluence onboarding documentation, reducing new engineer induction time from weeks to days.

Nestlé Professional

Oct 2022 – Jun 2024

Microbiologist and Raw Material Technician

Chicago, IL

- Connected procedures within SAP to Nestlé's Digital Manufacturing Operations software.
- Developed systems to automate label production within Microsoft Excel using VBA.
- Created and implemented Excel scripts for the Quality Lab to streamline daily workflows.

Nufarm Americas

Feb 2017 – Apr 2022

Quality Control Analyst

Chicago Heights, IL

- Created new methods of analysis for products and prepared validation steps.
- Trained and mentored new employees and temporary workers to ensure accurate and consistent lab practices.

EDUCATION

University of Illinois Chicago

May 2022 – Aug 2022

Full-Stack Web Development Certificate

Chicago, IL

Michigan Technological University

Aug 2012 – Aug 2016

BS, Biochemistry & Molecular Biology

Houghton, MI

- Activities: President, Society of African American Men (SAAM); Resident Assistant (RA).

TECHNICAL PROJECTS

Football League Stat Tracker

Jan 2023 – Present

Sole Developer | Data Visualization App

- Built ETL pipeline by scraping popular fantasy football sites using BeautifulSoup, transforming with Pandas, and loading into Google Firestore Database for downstream analysis
- Leveraged the Recharts library to visualize multiple data scenarios including head to head comparison, by season overview, and personal history against league averages
- Constructed endpoints connected with Cloud Scheduler cron jobs to automate updates at the end of each season
- **Tech stack:** TypeScript, Cloud Run, React, Firebase, Python, Pandas, NoSQL, Material UI, Recharts, Cloud Scheduler

Weather With You

Nov 2022 – Present

Project Lead | Weather App

- Led a post-graduation project with three classmates to build a weather application where users can search and favorite cities that appear on their profile.
- **Tech stack:** TypeScript, React, Node.js, PostgreSQL, Express, Git, Docker, Cloud Run, Recharts.

SKILLS

Programming Languages TypeScript | Java | Python 3 | C++ | SQL | HTML | CSS/Sass

Libraries & Frameworks React | Spring Boot | Selenium | Jest | AG Grid | Recharts | Flask

Tools & Platforms Vertex AI | Cube | AWS Quick Suite | Flatfile | Looker Studio | BigQuery

COURSEWORK

Advanced Algorithms and Complexity | Data Structures | Software Engineer Methodology | Google Cloud Architecture
Combinatorics and Probability | Mathematical Thinking in Computer Science | Discrete Optimization