

# AHMED M. SOZZER

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## Education

### University of Illinois Urbana-Champaign

Bachelors in Computer Science

May 2025

## Experience

### FYCLabs

Remote

#### Full Stack Engineer (Frontend, Backend, CI/CD)

May 2025 - Present

- Architect and deploy full-stack solutions for early-stage startups, transforming product concepts into production applications using Next.js, React, TypeScript, PostgreSQL with Prisma, and GCP infrastructure
- Develop cross-platform applications using React Native with seamless backend integration, delivering responsive interfaces from Figma designs while managing complete API architecture and database modeling
- Implement automated CI/CD pipelines on GCP with comprehensive testing strategies, reducing deployment cycles by 70% and maintaining 95%+ reliability across multiple concurrent client projects
- Optimize backend and database performance to support user growth from 700 to 5000 active users, improving query efficiency and horizontal scalability across distributed GCP infrastructure

### Holiday Channel

Colorado Springs, CO

#### Full Stack & iOS Developer

Jan 2025 - May 2025

- Engineered high-performance e-commerce platform leveraging modern tech stack, delivering 20% boost in customer retention
- Built resilient microservices infrastructure capable of seamlessly scaling to handle 200% traffic surges during peak holiday periods
- Executed strategic Google Ads integration while crafting responsive interfaces from Figma designs using Shadcn and Framer motion, increasing conversion rates by 28%

### Luminii LLC

Niles, IL

#### Data Analyst and Software Intern

May 2024 - Aug 2024

- Pioneered an automated pricing system leveraging machine learning to analyze real-time supplier data and adjust component costs, reducing manual re-calibrations by 40% while optimizing pricing accuracy metrics
- Cross-collaborated within a specialized team to implement advanced machine learning algorithms for comprehensive pricing strategy refinement, yielding 25% more competitive product pricing in target markets
- Enhanced website responsiveness through strategic implementation of lazy loading techniques, aggressive image compression, and thorough code minification, slashing average page load times by 30% across all device types
- Reconfigured a 15,000+ record database with strategic indexing, boosting query performance by 65% and streamlining maintenance through automated data validation protocols

## Skills

**Languages & Frameworks:** Python, C/C++, JavaScript/TypeScript, Java, React.js, Next.js, Node.js, GraphQL, Django, Express, Haskell, HTML/CSS, RESTful APIs, Vue.js, Angular, Spring Boot, TailwindCSS, React Native, Flutter, Redux, MCP

**Developer Tools:** Git, Docker, Kubernetes, CI/CD, PostgreSQL, MongoDB, Redis, AWS, Jest, Cypress, Postman, JIRA, Github

**System & Cloud:** Linux, Windows, macOS, Microservices Architecture, Serverless Computing, Cloud Infrastructure, DevOps

**Professional Skills:** Agile Methodology, Technical Leadership, Problem-Solving, Cross-Functional Collaboration, System Design

## Projects

### Real-Time Communication Platform — [Link](#) — [Front End](#) — [Back End](#)

- Developed a full-stack Web app featuring real-time messaging with WebSockets, video calling via Stream SDK, and user authentication through Firebase
- Engineered responsive React frontend with custom UI components and implemented Node.js/Express backend handling concurrent WebSocket connections with  $\pm 100\text{ms}$  latency
- Enhanced cross-browser compatibility for WebRTC video calls and deployed the application on Render cloud platform with 99.9% uptime

### NavBus: Real-Time Bus Navigation System — [Link](#)

- Created a real-time bus navigation platform using geospatial analysis to reduce route planning time by 40% for 200+ users
- Constructed map interface syncing with calendar events, helping 85% of users save 10+ minutes on daily commutes
- Optimized Node.js/MongoDB back end, cutting API response times by 30% while supporting 50+ concurrent users

## Publications & Presentations

- Created research paper on mentor-mentee matching algorithms selected for review by the American Society for Engineering Education (ASEE), with positive feedback from editorial board — [Link](#)
- Presented mentor-matching research at the 2023 John S. Albazi Student Research Symposium at NEIU — [Link](#)
- Showcased mentor-matching app research at Wright College's Fall 2022 Student Research Colloquium — [Link](#)