

# Alex Rowe

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## EDUCATION

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### University of Illinois Urbana-Champaign

Champaign, IL

*Bachelor of Science in Computer Science*

*May 2025*

- GPA: 3.82/4.0

## TECHNICAL SKILLS

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**Languages:** Go, Java, JavaScript/TypeScript, C++, Python, SQL (Postgres), HTML/CSS

**Frameworks:** Next.js, Spring, PyTorch, React, Node.js

**Developer Tools:** Git, CI/CD, Docker, AWS, Google Cloud Platform, Unix, Kafka

**Databases:** PostgreSQL, Neo4J, MongoDB, Redis, DynamoDB

## EXPERIENCE

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### Software Engineer Intern

Jun. 2024 – Aug. 2024

*Wizards of the Coast*

*Go | C# | .NET | Kubernetes*

- Reduced manual testing time by 80% and enabled continuous delivery by building a test client using C# with automated pipelines to test game services integration in a game development SDK.
- Saved hundreds of hours of developer time and enhanced the reliability of in-game transactions by integrating payment processing and code redemption services within the SDK using C# and .NET.
- Improved service reliability and maintainability by writing code and unit tests for microservices using Go.
- Built and called gRPC endpoints to enable efficient communication between microservices.

### Software Engineer

Aug. 2022 - Dec. 2023

*MIDL Intelligence*

*TypeScript | AWS | Next.js | React | Go*

- Developed a full stack web application using TypeScript with Next.js for a fast-growing startup with high-profile clients in need of large-scale surveillance solutions.
- Wrote and optimized high-speed REST APIs with complex computation, storing data in MongoDB and PostgreSQL databases, reducing query times by up to 89% on high traffic API endpoints.
- Secured important contracts by building and optimizing a real-world map feature, accurately and reliably providing real-time streamed data, enhancing the user experience.
- Successfully delivered intricate features under tight deadlines, constructing dynamic and responsive interfaces using React to handle real-time data via WebSockets, webhooks, and HTTPS requests.

### Summer Mentee

Jun. 2022 - Aug. 2022

*Microsoft*

- Won an internal company hackathon by collaborating with senior product managers to develop a prototype for the HoloLens line and a low-code app builder for the PowerApps suite.

## PROJECTS

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### Six Degrees

*Go, TypeScript, React Native*

- Built and deployed social media app tailored to building new connections using React Native and Go
- Implemented direct messaging with live notifications using WebSockets and PostgreSQL
- Implemented Rest API and persisted users, posts, friend requests, in graph format using Neo4J

**Clubfinity** | [gitlab.com/ufsec/clubfinity](https://gitlab.com/ufsec/clubfinity)

*JavaScript, React Native, Express*

- Led 5 teams totaling 23 people developing a full stack mobile app for clubs built using React Native and Node.js
- Developed features, fixed bugs, conducted code reviews, and implemented industry practices to mentor students
- Managed deployment and led closed beta with major CS clubs at the University of Florida, totaling 3000+ users

**Rembrandt** | [alexprowe.com/rembrandt](https://alexprowe.com/rembrandt)

*Python, FastAPI, JavaScript, React, AWS*

- Website for generating stock images using a brand's theming across several images using DALL-E and GPT Vision
- Deployed scalable and low-cost backend using AWS Lambda Functions and static frontend