

Luke Moenning

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EDUCATION

The University of Iowa

Bachelor of Science - GPA 3.83

Anticipated May 2025

Iowa City, IA

- BS Computer Science, BS Mathematics, University Honors
- Artificial Intelligence, Modeling, and Simulation Certificate, Psychology Minor
- Extracurriculars: ACM, Intramural Soccer
- Courses: Data Structures, Algorithms, Artificial Intelligence, Software Development, Computer Organization, Networks, Calculus I-III, Linear Algebra, Numerical Methods, Discrete Math

EXPERIENCE

HCI Undergraduate Researcher | JavaScript, Node.js, AWS, DynamoDB

Project: Story Carnival

January 2023 – Present

Iowa City, IA

- Developed a teacher reflection tool that will be demoed for **16** preschools that tracks classroom progress
- Validated the efficacy of the tool by researching established tools and commonly followed learning standards

Software Developer Intern | Next.js, GraphQL, Kubernetes, Tailwind, Nx, Jenkins

W.R. Berkley Corporation

May 2023 - August 2023

Urbandale, IA

- Improved an agile team's velocity by **20%** by efficiently handling tickets and meeting sprint deadlines while developing a micro front-end, internal portal
- Optimized GraphQL services and resolvers to enhance client-side data representation and error handling
- Accelerated development time for **70+** engineers by refactoring **50+** test files, expediting the CI/CD pipeline for multiple applications

Web Developer Intern | HTML, CSS

The University of Iowa - College of Engineering

September 2022 – January 2023

Iowa City, IA

- Collaborated with a team of **3** interns to efficiently port **100%** of the Biomedical Engineering Website to SiteNow v3
- Managed the College of Engineering website by handling **30+** ticket requests and communicating results directly to clients

PROJECTS

EduQuest | React.js, GraphQL, AWS, DynamoDB, OpenAI API

July 2023

- Created a full-stack, online learning platform for children utilizing AI for problem generation and student tutoring
- Won **2nd** place in the Education Challenge at the YouthCodeX 2023 Hackathon
- Implemented a GraphQL API to handle CRUD operations on user and problem data stored in DynamoDB, allowing for efficient and secure data manipulation

ConsultantGPT | Python, OpenAI API

July 2023

- Engineered an AI agent designed to provide consulting advice to businesses
- Established an efficient algorithm that enhances results by **150%**, resulting in higher quality consulting for customers

Warp | Java, JUnit, JSDoc, UML

November 2022

- Implemented a program to visualize and analyze channel communication in a wireless sensor network
- Utilized common industry practices such as test-driven development, proper documentation, agile, and artifact creation

LEADERSHIP EXPERIENCE

Soccer Coach

Northwest Junior High

March 2023 – May 2023

Coralville, IA

- Mentored and coached **63** seventh and eighth-grade boys, fostering team development and individual player growth
- Established the program for success during its inaugural year by taking initiative in organizational decisions and working directly with executive members of the school's staff

Lead Instructor

Mathnasium - The Math Learning Center

June 2019 – December 2022

Iowa City, IA

- Led a team of **10+** instructors to successfully help students recover from learning setbacks caused by COVID-19
- Streamlined teaching by directing instructional training sessions for the other instructors
- Provided individualized instruction to **100+** students, ranging from kindergarten to Calculus

SKILLS

- **Languages:** Java, Python, JavaScript
- **Libraries and Frameworks:** React.js, TypeScript, Next.js, Jest, JUnit, Node.js, Tailwind, Apollo Client
- **Tools:** GraphQL, Amazon Web Services (AWS), DynamoDB, Docker, Kubernetes, Git, Nx, Jenkins, Vercel