Luke Moenning

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EDUCATION

The University of Iowa — Anticipated May 2025
Bachelor of Science - GPA 3.83 — *Iowa City, IA*

- BS Computer Science, BS Mathematics, University Honors
- Artificial Intelligence, Modeling, and Simulation Certificate, Psychology Minor
- Extracurriculars: ACM Club Member, Intramural Soccer
- Courses: Data Structures, Algorithms, Discrete Structures, Introduction to Numerical Methods, Computer Organization, Introduction to Software Development, Introduction to Linear Algebra, Multivariable Calculus

EXPERIENCE

HCI Undergraduate Researcher | *JavaScript, Node.js, AWS, DynamoDB* — January 2023 – Present
Project: Story Carnival — *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, Tailwind, Nx, Jenkins* — May 2023 - August 2023
W.R. Berkley Corporation — *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* — September 2022 – January 2023
The University of Iowa - College of Engineering — *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

PERSONAL 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

Portfolio | *Next.js, TypeScript, Vercel* — December 2022

- Personally developed **100%** of a portfolio website where readers can learn more about my experience and projects
- Reduced load time by implementing server-side rending to improve user satisfaction

Trackify | *React.js, Docker, JSDoc, Spotify API* — October 2022

- Designed a Spotify stat tracker using React.js and Docker containers for seamless deployment
- Prevented prop drilling and tightly coupled code with the use of Context API

LEADERSHIP EXPERIENCE

Soccer Coach — March 2023 – May 2023
Northwest Junior High — *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 — June 2019 – December 2022
Mathnasium - The Math Learning Center — *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, Git, Nx, Jenkins, Vercel