Luke Moenning

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EDUCATION

The University of Iowa

Anticipated May 2025

Bachelor of Science Computer Science, Bachelor of Science Mathematics - GPA 3.83

Iowa City, IA

- 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

Research Intern | JavaScript, Node.js, Python, 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
- Designed a front-end UI using JavaScript and HTML/CSS and built supporting back-end APIs with Node.js, Python, Lambda, API Gateway, and DynamoDB

Software Developer Intern | Next.js, GraphQL, Kubernetes, 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

Projects

SolarViz | Python, Streamlit, Docker

September 2023

- Worked closely with a team of 4 to develop a platform to visualize and analyze solar panel data
- Identified 3 weak points in solar panel arrays located in Iowa City, providing valuable insights to the solar companies

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

$\textbf{ConsultantGPT} \mid \textit{Python, OpenAI API}$

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

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
- 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
- Tools: GraphQL, Amazon Web Services (AWS), SQL, DynamoDB, Docker, Kubernetes, Git, Jenkins, Vercel, Linux