Luke Moenning

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EXPERIENCE

Research Assistant — January 2023 – Present
Story Carnival — *Iowa City, IA*

- Conduct research on learning standards for preschool-age children
- Implement a teacher reflection tool to effectively track and document children's developmental progress

Web Intern — September 2022 – January 2023
The University of Iowa - College of Engineering — *Iowa City, IA*

- Learned front-end development skills and how to handle accessibility issues for websites
- Managed and maintained the College of Engineering website
- Handled ticket requests and communicated results and constraints with the requester

Lead Instructor — June 2019 – December 2022
Mathnasium - The Math Learning Center — *Iowa City, IA*

- Provided individualized instruction to over 50 students, ranging from kindergarten to Calculus
- Held leadership and instruction training sessions for instructors, enabling them to effectively instruct students
- Sharpened my communication skills by instructing students and interacting with parents

PROJECTS

TrailTrekkers | *AWS, DynamoDB, GraphQL, React* — January 2023

- Developed a social media application using AWS Amplify focused on tracking and finding hikes
- Utilized AWS Cognito and AWS Lambda for user authentication and authorization
- Implemented GraphQL mutations to handle CRUD operations on hike data stored in DynamoDB, allowing for efficient and secure data manipulation

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

- Created a Spotify stat tracker using React and Docker containers
- Prevented prop drilling and tightly coupled code with the use of Context API
- Utilized JSDoc documentation to improve the maintainability of the project

Personal Website | *React, Docker* — September 2022

- Improved scalability by creating a website template and storing all my information in a single file
- Practiced common web development principles as well as web design

EDUCATION

The University of Iowa — Iowa City, IA
Honors Bachelor of Science - GPA 3.88

- BS Computer Science; BS Mathematics
- Artificial Intelligence, Modeling, and Simulation Certificate; Psychology Minor
- Member of Association for Computing Machinery (ACM)

Relevant Coursework

- Data Structures – Algorithms – Discrete Structures – Introduction to Numerical Methods – Computer Organization – Introduction to Software Development – Introduction to Linear Algebra – Multivariable Calculus

TECHNICAL SKILLS AND INTERESTS

Skills: Java, Python, HTML/CSS, JavaScript, React, Docker, Git, Amazon Web Services (AWS), DynamoDB
Interests: Software engineering, competitive programming, psychology and human learning, soccer, coaching