

# Luke Moenning

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## EDUCATION

### The University of Iowa

Anticipated May 2025

*Bachelor of Science Computer Science, Bachelor of Science Mathematics - GPA 3.67*

*Iowa City, IA*

- Artificial Intelligence, Modeling, and Simulation Certificate + Psychology Minor
- Courses: Data Structures, Algorithms, Artificial Intelligence, Computer Organization, Networks, Numerical Methods, Optimization

## EXPERIENCE

### GoDaddy | Python, TypeScript, AWS, PySpark, React.js

June 2024 - Present

*Software Engineer Intern*

*Seattle, WA*

- Increased the speed of onboarding new metrics onto the experimentation platform by **4x** by writing a PySpark job to optimize the metric validation process
- Improved user experience by creating Python APIs, building out a React.js UI, and deploying the AWS infrastructure to connect the metric onboarding workflow

### Sage Bionetworks | Java, SQL, AWS

January 2024 - May 2024

*Software Engineer Intern*

*Seattle, WA*

- Reduced data latency for a team of **20+** researchers by writing and implementing the design for a real-time notification system through the use of webhooks
- Developed an algorithm utilizing AWS SQS and asynchronous Java workers to process and distribute **1,000,000+** simultaneous event notifications
- Created APIs for webhook registrations and additional data validation services for **100k+** monthly users
- Enhanced MySQL performance by developing an algorithm to parse SQL statements and optimize memory allocation

### HawCHI Lab | JavaScript, Node.js, Python, AWS, DynamoDB

January 2023 – December 2023

*Undergraduate Researcher*

*Iowa City, IA*

- Improved executive skills in **16** preschool and special education classrooms by developing a full-stack tool allowing educators to track and reflect on classroom progress
- Provided custom progress tracking features by converting **2** complex Qualtrics surveys to be natively integrated using JavaScript
- Efficiently handled classroom data by building supporting back-end APIs and databases with Node.js, Python, AWS Lambda, API Gateway, and DynamoDB

### W.R. Berkley Corporation | React.js, GraphQL, TypeScript

May 2023 - August 2023

*Software Engineer Intern*

*Urbandale, IA*

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

## LEADERSHIP EXPERIENCE

### Association for Computing Machinery (ACM)

December 2023 – May 2024

*Secretary and Treasurer*

*Iowa City, IA*

- Organized and facilitated weekly club meetings with **30+** members, managing a budget of **\$15,000**
- Co-orchestrated UICC, ACM's annual computing conference with **100-200** attendees

### Northwest Junior High

March 2023 – May 2023

*Soccer Coach*

*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

### Mathnasium - The Math Learning Center

June 2019 – December 2022

*Lead Instructor*

*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, Node.js, PySpark, Spring, Jest, JUnit
- **Tools:** GraphQL, Amazon Web Services (AWS), SQL, MySQL, DynamoDB, Docker, Kubernetes, Git, Jenkins, Maven, Vercel, Linux