

Justin Moran

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EDUCATION

Iowa State University

Bachelor of Science in Computer Science, Minor in Psychology

Ames, Iowa

Expected Graduation: May 2026

WORK EXPERIENCE

W.R. Berkley Corporation – Software Engineer Intern

Software Engineer Intern

Urbandale, Iowa

May 2025 – August 2025

- Saved 4,500+ hours annually, or 84+ hours weekly with my solutions for streamlining workflows and automated processes
- Engineered core features for the company websites and working through and resolving critical bugs in the web pages.
- Developed and optimized solutions using TypeScript, SQL, GraphQL, HTML, CSS, JavaScript, Docker, Kubernetes, and Jenkins.
- Collaborated cross-functionally with QA and DevOps teams to implement CI/CD pipelines, enhancing deployment reliability

Iowa State Department of Computer Science – SwAPP Lab

Research Intern

Ames, Iowa

May 2024 – August 2024

- Spearheaded development of advanced deep learning models for bidirectional translation between PyTorch and JAX frameworks
- Conducted cutting-edge research to enhance the accuracy and reliability of transformer model outputs
- Collaborated with a team of researchers to optimize neural network architectures for improved performance and efficiency
- Gained skill in both PyTorch and JAX, used GPT-3.5 and BERT for cross-framework compatibility testing

RELEVANT PROJECTS

HerdRight – <https://herdright.com>

- Improved visibility by 108% in organic traffic by integrating React Helmet for SEO optimization,
- Developed full-stack web platform using MySQL, Express, React, and Node.js, connecting livestock buyers and sellers
- Built real-time notifications using websockets and added user authentication for enhanced collaboration
- Integrated Stripe API for secure payment processing, streamlining payment transactions within the web platform

Neighborhood Finance Corporation (NFC) – <https://nfc.how>

- Saved NFC over \$100,000 annually by automating map updates for non-technical users to update maps without coding experience
- Developed an efficient, low-cost map system for a non-profit using GitHub Actions and Leaflet, reducing maintenance expenses
- Worked independently on comprehensive documentation to ensure long-term project sustainability and ease of maintenance

Pippa: Your Nutrition Buddy (1st Place)

- Built cross-platform Expo app with ChatGPT API for personalized nutrition guidance and real-time meal tracking
- Engineered a Tamagotchi-like experience using WebSockets and OpenAI integration to gamify eating disorder recovery, getting 1st place

ARuLearning - <https://arulearning.vercel.app>

- Developed an AR educational platform for third world countries using AR.js frameworks, implementing marker recognition
- Integrated interactive features including audio narration triggers, dynamic JSON content loading, and responsive navigation
- Built a website using HTML, CSS, and JS, so teachers can easily set up class lessons and print out materials using our website

VerifyAI – Ivy Hackathon (1st Place)

- Created a website that deciphers phone calls and then determines if a given call is AI generated or not
- Used React and Tailwind for the Frontend, winning 1st place in the technical tract out of 28 total teams in the event

PROGRAMMING SKILLS

- **Languages/Markup:** Python, Java, HTML, CSS, SCSS, C, Assembly, JavaScript, TypeScript, TSX, SQL, MongoDB, GraphQL
- **Libraries/Frameworks:** JDBC, React, ReactNative, Expo, BeautifulSoup, Junit, TensorFlow, NumPy, Express, Torch, JAX, Volley, Bootstrap, Pico, Tailwind, Leaflet, React Helmet
- **Dev Tools/Other Skills:** Eclipse, Visual Studio Code, Git, GitHub, MongoDB Atlas, MySQL, Figma, IntelliJ, CAD Inventor, Microsoft Office, Anaconda, AndroidStudio, AWS CLI, Vercel, Docker, Kubernetes, Jenkins, Antigravity, Cursor

LEADERSHIP & INVOLVEMENT

Student Government

LAS Senator

Ames, Iowa

January 2024 – January 2025

- Spearheaded projects for adding machines to State gym and adding new walkways around the residence halls at Iowa State
- Represented LAS for the Legislative Branch, in which we allocated over \$2.6 million in student funding