

MICAH KEPE

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EDUCATION

Rice University, Houston, TX

Expected May 2026

Bachelor of Science in Computer Science, Minor in Data Science

GPA: 3.93 / 4.00

Relevant Coursework: Computer Engineering, Practical Machine Learning, Computer Systems, R for Data Science, Tools for Data Science, Concurrent Program Design, Data Structures & Algorithms, Mathematical Cryptography, IoT Programming, Game Design, Quantum Computing, Multivariable Calculus, Linear Algebra, Probability and Statistics, Discrete Mathematics

PROFESSIONAL EXPERIENCE

Machine Learning Researcher, Vislang Lab, Houston, TX

Feb 2024 – Aug 2024

- Major contributor to a 40M+ image repository for open-source research, enabling the development of advanced multimodal datasets for ML applications.
- Implemented and evaluated CLIP-based models for zero-shot image classification, reproducing state-of-the-art results on ImageNet without task-specific fine-tuning.
- Built interactive, web-based demos for publications (e.g., SCoRD) to visualize autoregressive visual relationship prediction models, increasing accessibility for thousands of site visitors.

Software Developer, King Energy, Durango, CO

Jun 2023 – Aug 2023

- Developed an intelligent document navigation and bundling tool that improved operational efficiency by 30% in a fast-paced solar energy startup.
- Spearheaded a RESTful backend using Node.js, integrating Google Drive API, Prisma ORM, and Salesforce CRM for seamless data exchange.
- Collaborated on a cross-functional team, leading code reviews and agile iteration cycles to ensure scalable, high-quality software delivery.

PROJECTS

Vimtutor Sequel | Bash, Vimscript, Ruby, Homebrew

Aug 2024

- Created a CLI extension to vimtutor with 8 new tutorials on macros, registers, and plugin workflows.
- Reached 500+ GitHub stars and featured on the Hacker News front page.
- Managed global contributions with Git best practices; accepted into Homebrew-Core.

Personal Website and Blog | React, Vite, Tailwind CSS, Node.js

Jun 2023 – Present

- Designed and deployed a performant personal portfolio using React and Vite, with CI/CD pipelines via GitHub Actions.
- Published 15+ technical blog posts on system design, algorithms, and infosec, generating thousands of monthly views.
- Open-sourced a Zola theme reducing load times by 65%, with built-in search, SEO, and comment support.

LEADERSHIP & ACTIVITIES

Admissions Interviewer, Rice University

Sep 2024 – Present

- Selected as one of 36 interviewers (from 250+ applicants) to assess prospective students through structured behavioral interviews.

Academic Mentor, Rice University

Aug 2023 – Present

- Conduct weekly review sessions and workshops for 50+ students in data structures, algorithms, and systems programming.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript/TypeScript, C/C++, SQL, Go, Rust, R

Web Development: React, Next.js, Node.js, GraphQL, REST API Design, HTML/CSS, Tailwind

Machine Learning: PyTorch, TensorFlow, Computer Vision, Natural Language Processing, NumPy, Pandas

Tools & Technologies: AWS, Git, Docker, CI/CD, Kubernetes, PostgreSQL, Firebase, Linux/Unix