

# Micah Kepe

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## Education

**Rice University**, Houston, TX

May 2026

*Bachelor of Science in Computer Science, Minor in Data Science*

**GPA:** 3.96/4.0

**Relevant Coursework:** *Multivariable Calculus, Linear Algebra, Probability and Statistics, Computer Engineering, Program Design, Practical Machine Learning, Computer Systems, R for Data Science, Tools for Data Science, Concurrent Program Design, Algorithms, Computer Ethics*

## Professional Experience

**Machine Learning Researcher**, Vislang Lab, Houston, TX

February 2024 – Present

- Major contributor to open web repository of millions of free-use images for the next generation of multimodal datasets for researchers.
- Training and benchmarking a CLIP (Contrastive Language-Image Pre-training) model on collected data for image-text retrieval tasks and zero-shot learning.
- Developed interactive web demonstrations that showcase the research group's published works, particularly SCoRD, an auto-regressive model that predicts relation-object pairs and their locations given an input subject in an image.
- Collaborating with a team of researchers, providing code reviews and iterative feedback to enhance model performance and accuracy.

**Software Developer**, King Energy, Durango, CO

Jun 2023 – Aug 2023

- Built a file navigation and bundling tool, reducing document processing time by 30%, improving workflow efficiency.
- Developed and deployed a RESTful backend using Node.js, integrating with Google Drive, Prisma, and Salesforce.
- Worked with a team of 3 developers, conducting code reviews, integrating peer feedback, and ensuring high-quality deliverables.

## Projects

**Vimtutor Sequel** | *Bash, Vim Scripting, Homebrew, Ruby*

Aug 2024

- Authored an open-source package extending Vim's vimtutor program, covering advanced topics.
- Gained 400+ stars on GitHub and featured on Hacker News front page.
- Collaborated with open source contributors through code reviews, improving code quality and lessons.

**Personal Website** | *React, Vite, Tailwind CSS, Node*

Jun 2023 - Present

- Developed a website to showcase portfolio, using modern technologies like React and Vite.
- Regularly writing technical blog posts on topics like information security, algorithms, and web vulnerabilities.
- Integrated feedback to enhance user experience and content relevance.

## Leadership and Activities

**Residential College Academic Mentor**, Rice University, Houston, TX

August 2023 – Present

- Providing academic assistance for computer science courses through review sessions, office hours, and individual tutoring for computer science students.

**Jazz Musician**, Rice University, Houston, TX

August 2022 – Present

- Playing saxophone with a Rice jazz combo and regularly performing concerts in the Houston community and at Rice's Shepherd School of Music.

## Technical Skills

**Programming Languages:** Python, Java, JavaScript/TypeScript, C, SQL, R, Lua, Go, Bash, Ruby

**Web Development:** HTML, CSS, React, React Native, NestJS, Next.js, Node, Vite

**Machine Learning:** TensorFlow, PyTorch, Pandas, NumPy

**Tools and Technologies:** Git, Firebase, Supabase, LaTeX, RegEx, Prisma, AWS Spark, Postgres, SQLite