

# 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, Fundamentals of Computer Engineering, Introduction to Program Design, Practical Machine Learning for Real World Applications, Introduction to Computer Systems, R for Data Science, Tools for Data Science, Concurrent Program Design, Algorithmic Thinking, Reasoning About 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, in particular SCoRD, an auto-regressive model that predicts relation-object pairs and their locations given an input subject in an image.

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

June 2023 – August 2023

- Built an internal file navigation and bundling tool to improve legal document classification and management efficiency for thousands of project forms.
- Developed and deployed a scalable, RESTful backend infrastructure, enabling seamless integration with Google Drive, Prisma, Salesforce, enhancing system interoperability.

## Projects

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

August 2024

- Authored an open-source software package that extends Vim's built-in vimtutor program, covering advanced topics such as macros, plugins, and registers.
- Gained 350+ stars on GitHub and earned a spot on the front page of Hacker News.

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

June 2023 - Present

- Developed an iterative website to showcase portfolio and deliver an immersive user experience, incorporating modern technologies like React and Vite.
- Regularly writing technical blog pieces covering a wide array of topics such as information security, data structures and algorithms, web vulnerabilities, and more.

## Leadership and Activities

**Baker 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 perform 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

**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