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 an open web repository of tens 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.
- Created 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 diverse 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

- Engineered an intelligent file navigation and bundling tool, optimizing document processing workflows by 30%, significantly boosting operational efficiency in a rapidly growing solar energy startup.
- Designed and deployed a RESTful backend infrastructure using Node.js, seamlessly integrating with Google Drive, Prisma, and Salesforce, to streamline internal data management across the organization.
- Played a key role in a cross-functional team of developers, driving collaborative development practices through rigorous code reviews and iterative improvements, ensuring high-quality, scalable software solutions.

Projects

Vimtutor Sequel | *Bash, Vim Scripting, Homebrew, Ruby*
Aug 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 475+ stars on GitHub and was featured on the Hacker News front page.
- Collaborated with a global team of open source contributors to get the package accepted into the Homebrew-Core package library.

Personal Website and Blog | *React, Vite, Tailwind CSS, Node*
Jun 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.
- Created custom open source static site generator theme for blog site.

Leadership and Activities

Admissions Interviewer, Rice University, Houston, TX
September 2024 – Present

- Selected as one of 36 student interviewers from a pool of over 250 applicants to assess prospective students for admissions to Rice University, conducting interviews to evaluate academic and extracurricular strengths.

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 a large group of computer science students.

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