

Eva Liu

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RELEVANT EXPERIENCE

Center for Reproducible Biomedical Modeling (CRBM)
Software Engineer Lead/Consultant

Seattle, WA
July 2022 – December 2024

- Led development of a browser-based computational biology modeling editor, improving accessibility and usability of tools for designing and editing biological simulation models.
- Owned end-to-end execution (roadmap, sprint planning, delivery), translating research requirements into scalable features for a research-facing software platform.
- Presented research software tools at international conferences (COMBINE, HARMONY), contributing to global collaboration efforts on standards and interoperability in computational biology.
- Co-authored a peer-reviewed *Bioinformatics* publication (Oxford University Press) on the design and implementation of a VSCode extension for Antimony, enabling more efficient authoring and editing of computational models in systems biology. (DOI: 10.1093/bioinformatics/btad753)

PROJECTS

Antimony Web Editor

July 2023 - September 2024

github.com/sys-bio/AntimonyEditor

- Built a React/TypeScript web editor for the Antimony modeling language using Monaco Editor, enabling in-browser systems biology model development for research workflows.
- Implemented core language-processing capabilities, including grammar recognition, syntax highlighting, and contextual hover documentation, powering improved experiences for computational modeling.

Vscode-Antimony Vscode Extension

July 2022 - Aug 2023

github.com/sys-bio/vscode-antimony

- Developed core features for a VS Code Antimony extension with 1,000+ users on the Marketplace, expanding accessibility of systems biology modeling workflows.
- Engineered automated installation pipeline (Python + TypeScript), streamlining onboarding and reducing user setup friction.
- Designed editor-level features including variable annotations and dynamic rate law insertion via VS Code APIs, improving model clarity and reducing manual authoring effort.

EDUCATION

University of Washington, Paul G. Allen School of Computer Science & Engineering
Bachelor of Computer Science

Seattle, WA

ADDITIONAL PROJECTS

Blog Platform

2025 - Present

github.com/evaxliu/rice-thoughts

- Built a full-stack blogging platform using Next.js, React, TypeScript, Python, and Supabase with Wisp CMS for structured content management and dynamic rendering.
- Developed an AI-powered article recommendation system using Voyage AI embeddings, pgvector, and semantic search to surface related articles.
- Developed backend services with FastAPI to generate, store, and retrieve vector embeddings for content discovery.
- Implemented modular frontend architecture to support reusable layouts and scalable content delivery.

ADDITIONAL EXPERIENCE

Atulea
Barista

Seattle, WA
October 2024 – Present

- Provided exceptional customer service in a high-volume café while preparing beverages, processing transactions, maintaining inventory, and ensuring operational efficiency through effective teamwork and attention to detail.