Milo Banks

milobanks@fastmail.nl
linkedin.com/in/milobanks
github.com/milobanks

Education

University of Utah, Salt Lake City, UT
Bachelor of Science (B.S.), Computer Science and Microbiology
Expected Graduation: May 2028

Professional Experience

Division of Epidemiology, University of Utah, Salt Lake City, UT
Software Developer   May 2024 – February 2025

– Developed front-end interfaces and ported epidemiological simulation software to improve usability and functionality.

– Enabled researchers to access and interact with complex data more efficiently, driving forward critical projects.

– Presented progress to funding sources and colleagues, showcasing the value of the work and securing continued grant support.

Salt Lake Digital, Salt Lake City, UT
CEO, Software Developer   May 2024 – December 2024

– Worked with small to medium sized businesses to design and implement e-commerce stores and informational websites.

– Optimized web presence according to search engine optimization practices and telemetry.

Projects

Koi
*A **compiler** and **full toolchain**, written in **C**, featuring a custom, experimental backend architecture.*
github.com/milobanks/koi

Ook
*An investigative **object-oriented kernel**, written in **C++.***
github.com/milobanks/ook

Kojiki
*A converter for GNU Makefiles to Ninja files for **faster iterative builds**, written in **C**.*
github.com/milobanks/kojiki

IPSD
*Led project to allow for **sandboxed remote environment access**, for workshops and demos, in **C**.*
github.com/UofUEpiBio/ipsd

Skills

– **Programming Languages (Proficient):** C, C++, Rust, Python, UNIX Shells, LaTeX

– **Programming Languages (Familiar):** Kotlin, Java, R, Perl, HTML

– **Operating Systems:** NetBSD (kernel, userland), Linux (kernel, userland), macOS (userland)

– **Development Tools:** CMake, Meson, GNU Make, Valgrind, GitHub Actions/CI

– **Testing:** Catch2 (C/C++) PyTest (Python), TinyTest (R)

– **Version Control:** Git, GitHub, sourcehut, PR/send-mail

Leadership and Achievements

Lead Software Developer, Rowland Hall Iron Lions (FTC Team 19922)   October 2021 – May 2024

– Led a team of four in a competitive robotics competition, architecting a novel framework allowing for faster iteration, fewer bugs, and closer hardware team integration.

– Strengthened leadership, problem-solving, and collaboration skills, delivering high-quality solutions under pressure.

Open Source Project Lead   July 2021 – July 2022

github.com/milobanks/greatness

– Created and maintained a dotfile management tool that gained **109 stars** within a few weeks.

– Maintained community contributions and engagement.