Sam Kravitz (he/him)

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Education

Purdue University — West Lafayette, IN

▪ Bachelor of Science in Computer Science — May 2019

Experience

American Thrombosis & Hemostasis Network (ATHN) — Remote, US

Software Engineer — June 2021 - Present

- ▪ Full stack engineer leveraging Ruby on Rails, React, and BackboneJS
- ▪ Develop and maintain forms used by medical caregivers studying over 6,000 patients with bleeding disorders
- ▪ Create internal developer tools to automate generation of new study forms, saving hours of time

Applied Research Associates — Raleigh, NC

Software Engineer — June 2019 - May 2021

- ▪ Developed and optimized C++ software solutions for complex, mission-critical projects in national security, infrastructure, and health sectors, ensuring high performance and reliability.
- ▪ Contributed to the full software development lifecycle, from requirements gathering and system design to testing and deployment, ensuring the delivery of effective and correct software aligned with client specifications.

Projects

Hinawa

- ▪ A hobby web engine written in C++
- ▪ HTML and CSS engine rendering inline, block, and image layouts
- ▪ A budding bytecode-compiled JavaScript interpreter

Discovery

- ▪ A Nintendo Game Boy Advance emulator written in C++
- ▪ Accurately emulates Game Boy Advance hardware systems, including CPU, GPU, MMU, & DMA
- ▪ Successfully boots and runs many commercial and homebrew Game Boy Advance ROMs

Works Published

Promoting a Safe Laboratory Environment Using the Reactive Hazard Evaluation and Analysis Tool

- ▪ A. Talpade, P. Ghanekar, S. Kravitz, et. al
- ▪ Published in the American Chemical Society's Health & Safety journal
- ▪ Published February 28, 2021

Skills

- ▪ Languages – C/C++, Java, Ruby, JavaScript/TypeScript, Rust, Python, HTML, CSS, C#, x86/ARM assembly
- ▪ Technologies – Git, React, Rails, PostgreSQL, Docker, Java SpringBoot, Firebase, AWS, .NET, MongoDB
- ▪ Operating Systems – GNU/Linux (Experienced), Windows (Intermediate), MacOS (Working knowledge)