Sam Kravitz (he/him)

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Education

Purdue University   West Lafayette, IN

▪ Bachelor of Science in Computer Science   May 2021

▪ Overall GPA: 3.60   Major GPA: 3.57

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

Center for Innovation and Strategic Transformation of Alkaline Resources (CISTAR)   West Lafayette, IN

Software Engineering Intern   January 2020 - May 2021

- Solely maintained the frontend and backend for a web tool designed to inform chemists in the laboratory environment about safety hazards present in the experiments they conduct
- Worked closely with industry representatives and experts on how to calculate the properties of a chemical reaction and convey safety information in an accessible and visually appealing way

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)