Alan Zhang

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OBJECTIVE

Looking for a software engineering internship position with real-world impact

EDUCATION

Rose-Hulman Institute of Technology   **May 2024**
Bachelor of Science, Computer Science   *Terre Haute, IN*
- Dean's List, 3.7/4.0 GPA
- Took Data Structures & Algorithm Analysis, Object-Oriented Software Development, Database Systems, Programming Language Concepts, Software Design, Computer Architecture, Web Development
- Involved in Residence Hall Association, Computer Security Club, Intramural Sports, Badminton Club

EXPERIENCE

Inuvo   **June 2022 – September 2022**
DevOps Intern   *San Jose, CA*
- Created and managed Prometheus and Datadog alerts for backend servers
- Monitored and automated AWS usage
  - Generated scripts for reviewing inactive users and instances in spreadsheets
  - Created lifecycle rules for cloud storage, cutting daily costs by more than 30%
- Initialized and automated firewalld setup for new redis docker containers

Paly Robotics   **September 2017 – May 2021**
Software Lead / Summer Camp Software Lead   *Palo Alto, CA*
- Automated ball shooting, path finding, and tuned PIDF control loops in Java for the yearly FIRST Robotics Competition
- Managed a variety of team projects and deadlines, including integration between software and hardware subteams, technical documentation, team culture, and outreach projects

PROJECTS

BoneBot | github.com/AlanZhang2002/Bonebot   **Jan 2022 – May 2022**
- Developed Discord bot that sends daily messages and updates for Rose-Hulman Institute of Technology
  - Scrapes specified web pages using BS4, Requests
  - Utilizes API to receive network updates

Processor Project | github.com/rhit-csse232/rhit-csse232-2223a-project-v-2223a-03 **Oct 2022 – November 2022**
- Designed, implemented, and simulated basic 16-bit processor with group
  - Design document includes datapath and a finite state machine for instructions
  - Multicycle processor with accumulator and self-incrementing stack pointer implemented in Verilog

SKILLS & INTERESTS

- **Software skills:** Java, C, Python, Bash, HTML, CSS, JavaScript, Node.JS, Bootstrap, Verilog, Scheme, SQL
- **Familiar software:** Git, Gradle, IntelliJ, VS Code, Linux, Docker, Jenkins, Postman, VirtualBox, Ghidra
- **Technical skills:** Familiar with software design principles, virtualization, debugging, computational efficiency
- **Language skills:** Basic proficiency in Japanese, Mandarin
- **Interests:** Philosophy, keyboards, sports, cooking, reading