JOSEPH HSU

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CAREER OBJECTIVE

Honors Computer Science Senior looking for a full-time job or internship that will help me integrate my academic and professional experience and provide me with an opportunity to foster collaborative relationships with others

EDUCATION

PURDUE UNIVERSITY, WEST LAFAYETTE, IN
Bachelor of Science in Computer Science, May 2023
- GPA: 3.6/4.0
- Relevant Coursework: O-O Programming, Programming in C, Computer Architecture, Data Structures and Algorithms, Systems Programming, Cryptography, Operating Systems, Software Engineering, Computer Security, Information Systems

WORK EXPERIENCE

NASA/US Air Force, WEST LAFAYETTE, IN
Senior Software Engineer (Undergrad Researcher), August 2022 – Present
- Manage software design and development team to meet product security requirements, while also conducting code reviews, and meeting with project stakeholders on a regular basis
- Plan, implement and monitor progress while also conforming to organization security measures and practices
- Write and develop custom software solutions for FEMTA CUBE-SAT payload (small satellites) to be deployed in space

TEXTRON, AVILLA, IN
LDP IT Intern, May 2022 – August 2022
- Create macros and systems in excel to help keep track of product testing schedules, while also updating and writing
- documentation for Kautex-Textron security assets.
- Test, document, and deploy written custom SAP backup infrastructure to all Kautex-Textron locations in North America
- Write and develop custom SAP-related backup infrastructure to reduce overall downtime for manufacturing lines

FREELANCE SOFTWARE ENGINEER, CARMEL, IN
Software Developer/ Web Dev Consultant, May 2017 – Present
- Confer with a variety of stakeholders on a bi-weekly basis to build, develop, and deploy custom websites which modern design aesthetics and standards
- Develop and verify automated tests to ensure test cases mimic external interfaces and covers all common browsers and devices

PURDUE UNIVERSITY RESIDENCES, WEST LAFAYETTE, IN
Residential Assistant, July 2021 – Present
- Assist in supervising 1000+ residents and responding to complaints, reports, requests, and emergencies
- Foster relationships between 60+ residents by hosting one floor event per week and encouraging college involvement
- Resolve conflicts between 60+ residents by mediating and offering de-escalation facilitation

SKILLS

- C, Java, python, HTML, JS, CSS, React, SQL
- Jira, Confluence, APIs, AWS (Lambda, Amplify)
- Scrum Master/Project management experience
- Android Studio, Flutter
- Automation/Software Engineering
- Hackathon/Competitive Hacking (CTF)

SELECTED PROJECTS

CUSTOM SAP BACKUP INFASTRUCTURE
Intern project assigned at Avilla, Kautex-Textron plant. Created backup network page so that production could continue to make rack labels and track items even if Wi-Fi or SAP went down, leading to a decrease in overall downtime. Estimated to save the company **~$30k/yr**.

STUDY WITH CLASS
Placed 1st at Purdue's Hackathon BOILERMAKE IX. Wrote the frontend and helped with SQL integration. The end product was a program that created study groups based on parsed calendar inputs- looking for common free time in all given calendars. Built with Flask, Twilio's API, & python

ORGINIZATIONS & LEADERSHIP

- **CARY CLUB –** *RA Representative, September 2021 – Present*
- **SUPREME COURT OF PURDUE –** *Clerk to the Chief Justice, Feb 2021 – Present*
- **PURDUE STUDENT GOVERNMENT -** *Director of Technology, July 2021 – Present*
- **PURDUE FENCING –***Armorer, Captain, August 2022 – Present*
- **HOROLOGICAL SOCIETY OF PURDUE –** *President and Founder, August 2022 – Present*

References available upon request