

Seran Gemechu

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COURSEWORK

- OOP, Data Structures & Algorithms, Machine Learning, Computer Architecture, Operating Systems
- App Dev, Linear Algebra, Software Engineering, DBMS, Computer Organization, Computing Theory

TECHNICAL SKILLS

- Java, Python, Ruby, Ansible, JS, x86 Assembly, ReactJS, PostgreSQL, HTML, CSS
- MS SCCM, JAMF, Intune, Cisco vManage, Meraki, Scrum, JIRA, Docker, GitHub, VS code
- Linux, Win, MacOS, VMware/VB, Nmap, Aruba, Wireshark, Networking (DNS, VLAN, TCP/IP)

WORK EXPERIENCE

Software Automation Engineer Intern	Tesla , Fremont CA	May 2022 – Present
<ul style="list-style-type: none">• IT support.<ul style="list-style-type: none">○ Tesla center site visits and IT rack refreshments○ Imaging, troubleshooting laptops, Kiosks, VFCS’s and other devices○ Managing and configuring printers via Printerlogic, troubleshooting issues on core Tesla network infrastructures• Utilized Ruby programming language to create a script that automates the process of assigning hostnames to Tesla employee iMacs using the company's location API.• Single NIC Solution Project: Designed and implemented a program using Ansible, Python and bash scripting to streamline the setup process for Tesla Vehicle Firmware Caching Servers. The program enabled the remote disabling of unnecessary ethernet cables and utilization of a single network interface cable, reducing hardware, time and resources needed for deployment of Intel NUC 10s to Tesla centers across North America, including Mexico.• <u>Utilized:</u> Ansible, Python, Bash, HashiCorp Vault, Linux		
Resident Advisor	Sacramento State University , Sacramento, CA	Aug 2021 – May 2022
<ul style="list-style-type: none">• Develop a positive living environment for campus residents, often resolving conflicts.• Create, market, and lead student centered hall programs to promote social, education, diversity.• Enforce all College Living policies, promoting academic excellence, and encouraging involvement.		
Apple Repair Technician	Experimax , San Jose, CA	Jan 2020 – Feb 2021
<ul style="list-style-type: none">• Customer support• Data Recovery, Malware Analysis, LCD/battery replacement and more.		

SOFTWARE PROJECTS

Web Development
<ul style="list-style-type: none">• Developed a personal website using React Js, JS, HTML and CSS. Hosted it via GitHub.• <u>Utilized:</u> Git, UI/UX, MUI
AI-based Network Intrusion Detection System
<ul style="list-style-type: none">• Developed a machine learning model that detects and protects a computer network by filtering out malicious connections and maintaining legitimate ones through predictive learning. (Accuracy: 97%)• <u>Utilized:</u> Python, TensorFlow, Google Colab
Vendor Invoice Portal
<ul style="list-style-type: none">• Collaborated with a team of 7 developers to create a vendor portal web application for Harris School Solutions as part of a senior design class. The application allows customers to sign up, upload, and submit documentation for payments to schools, streamlining the process and improving data validation and payment processing. This project resulted in a significant reduction in in-person hours for school staff.• <u>Utilized:</u> PostgreSQL, ExpressJS, ReactJs, NodeJs, Docker, keycloak, PassportJS

EDUCATION

California State University Sacramento – Sacramento, CA	Expected Graduation: December 2022
<ul style="list-style-type: none">• Bachelor of Science in Computer Science• Dean’s Honor List	