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, C, JS, x86 Assembly, ReactJS, PostgreSQL, HTML, CSS
- TensorFlow, AWS, Google Colab, Scrum, JIRA, Docker, GitHub, IntelliJ, VS code
- Linux, Win, MacOS, VMware/VirtualBox, Nmap, Wireshark, Networking (DNS, TCP/IP)

WORK EXPERIENCE

IT Operations Intern   *Tesla, Fremont, CA*   *Incoming Summer 2022*
- Build IT dashboard
- Troubleshoot and resolve endpoint issues
- Install and support systems and assist with day-to-day operations for Tesla's global IT infrastructure.

Resident Advisor   *Sacramento State University*, Sacramento, CA   *Aug 2021 – Present*
- 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*
- Customer support
- Troubleshooting software and hardware issues on all Apple products; Data Recovery, Malware Analysis, LCD/battery replacement and more.

IT Advisory Board   *Sacramento State University, Sacramento, CA*   *Aug 2018 – May 2019*
- Provided special consultation to the Vice President for IT & Chief Information Officer.
- Attended weekly meetings to discuss and suggest influencing ideas to solve issues revolving on campus technology equipment.

SOFTWARE PROJECTS

Web Development
- Developed a personal website using React Js, JS, HTML and CSS. Hosted it via GitHub.
- *Utilized*: Git, UI/UX, npm

OnStarter Game
- Developed an interactive game using Java and CodeNameOne framework that runs Cross-platform.
- *Utilized*: Arrays, Design patterns, OOP, Sound, Animation

Yelp Business Star Rating Prediction AI
- Developed a machine learning model to parse the reviews of businesses and predict star ratings.
- *Utilized*: Keras, Jupyter, Regression and Classification Algorithms - (**Accuracy Achieved: 93%**)

AI-based Network Intrusion Detection System
- Developed a machine learning model to detect and protect a computer network by filtering out bad connections and keeping the good ones through predictive learning. (**Accuracy Achieved: 97%**)
- *Utilized*: Python, TensorFlow, Google Colab, Neural Network

Vendor Portal – *in progress*
- As part of senior design class and team of 7 other developers, currently working on a vendor portal Web App for a company that allows their customers to register and submit documentation for payment to schools - significantly reducing person-hours for school staff, improving data validation and timely payment processing.
- *Utilized*: PostgreSQL, ExpressJS, ReactJs, NodeJs, Docker

EDUCATION

California State University Sacramento – Sacramento, CA   *Expected Graduation:* Fall 2022
- Bachelor of Science in Computer Science
- Dean's Honor List