

Seran Gemechu

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COURSEWORK

- OOP, Data Structures & Algorithms, AI/Machine Learning, Computer Architecture, Operating Systems
- App Development, Cybersecurity, DBMS, Computer Organization, Computing Theory, Software Engineering

TECHNICAL SKILLS

- Java, Python, C, JS, x86 Assembly, Verilog, React JS, SQL, HTML, CSS, Confluence
- TensorFlow, AWS, Google Colab, Scrum, JIRA, GitHub, Eclipse, VS code
- Linux, Windows, MacOS, VMware/VirtualBox, Wireshark, CI/CD, Networking (DNS, TCP/IP)

WORK EXPERIENCE

- 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**
 - Assisting customers
 - Troubleshooting software and hardware issues on all Apple products; Data Recovery, Malware Analysis, LCD/battery replacement...etc.
- 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

- Yelp Business Star Rating Prediction AI**
 - Developed a machine learning model to parse the reviews of businesses and predict star ratings with 93% accuracy.
 - *Utilized:* TensorFlow, Keras, Jupyter; Regression and Classification Algorithms
- 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: 98%**)
 - *Utilized:* Python, TensorFlow, Keras, Google Colab, Neural Network, Logistic Regression
- Vehicle Classification AI**
 - Developed vehicle classification deep learning model using CNN and transfer learning with accuracy, precision, and recall-score all above 0.70 on the validation set.
 - *Utilized:* VGG16, Stanford Cars Dataset, Linear PCA, Data pre-processing, EfficientNet B1
- Store Item Price Teller**
 - Developed a program that takes large number of encrypted code39 barcode binary numbers that contain grocery item name and a price for each specific item.
 - Decrypts and converts the binaries into human and computer readable ASCII characters. Returns item name and total price to the client server.
 - *Utilized:* Data structures: Arrays, HashMap, Stacks, Array Lists, JAVA, XML
- OnStarter Game**
 - Developed an interactive(GUI) Java game built with CodeNameOne framework that runs Cross-platform.
 - *Utilized:* Design patterns, OOP, MVP, Sound, Animation and Transformation

EDUCATION

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