

JERRY ALLAN AKSHAY

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EDUCATION

University of Southern California, Viterbi School of Engineering

Masters in Computer Science

Honors: MS CS Honors Student

Relevant Coursework: Analysis of Algorithms, Databases, Web Technology, Machine Learning, Operating Systems

Los Angeles, CA

August 2021-May 2023

GPA: 4.0

SKILLS

- **Programming Languages:** C, C++, C#, Java, JavaScript, TypeScript, HTML, CSS, XML, Python, PHP, Kotlin, Bash
- **Frameworks and Tools:** ElectronJS, Angular, React, NodeJS, Flask, .NET, SQL, SQLAlchemy, Bootstrap, JQuery, Firebase, Git, SVN, Docker, AWS, REST, Android Studio, MongoDB, FIGMA, Jest, Pandas, Scikit-learn, Numpy, Matplotlib, RegEx, Markdown, SASS

EXPERIENCE

Information Sciences Institute

Los Angeles, CA

Full Stack Developer

September 2021-Present

- Direct and implement a GUI, REST APIs, and a uniform definition syntax to revamp ease-of-use of DEW (Distributed Experiment Workflows), a novel approach to testbed design, orchestration, and analysis, currently benefitting 2000 users
- Coordinate and drive the DEW portal to achieve a 60% higher user count and 100% user retention
- Introduce an enhanced GUI with revised statistics collection process of SEARCCCH, a tool utilized by researchers to rapidly share and find research artifacts, helping administrators get insights into website usage patterns incorporating 10 different metrics

Juniper Networks

Sunnyvale, CA

Software Engineering Intern

May 2022-August 2022

- Detect security issues and achieve better security by fixing a critical security vulnerability involving data retrieval from AWS servers on booting a machine instance on AWS, saving Juniper Networks millions in case of a data breach
- Brainstorm and implement a usage statistics retrieval mechanism on vSRX – a virtually hosted Juniper firewall system – enabling retrieval of traffic data across at least 6 protocols used to improve AI-driven network security mechanisms

Unisys

Bangalore, India

Associate Engineer

September 2020-July 2021

- Led a team of 5 developers to devise a new cross-platform installer for STEALTH, a Unisys cybersecurity product
- Eliminated redundant development and maintenance process by building a common installer UX across all platforms leading to a common codebase and documentation, resulting in 3 times lesser development and maintenance time

ACADEMIC PROJECTS

Stock Search ([Link](#))

January 2022-May 2022

- Built and presented an Android Application along with a Web Application making use of Highcharts and Finnhub APIs, enabling users to search for, track, and trade stocks; saving users time and effort by at least 50%

Machine Learning Algorithms and Neural Networks

January 2022-May 2022

- Collaborated and designed highly efficient Neural Networks (CNNs, and LSTM RNNs) to determine if a movie review is positive or negative by performing sentiment analysis, with accuracies close to 85%
- Developed Machine Learning Algorithms and Ensemble Methods to predict/analyze data, with high accuracies close to 95%

PUBLICATIONS

EPM: Meta-learning method for Remote Sensing Image Classification ([Link](#))

August 2020-December 2020

Springer, Machine Intelligence and Smart Systems

- Co-authored a paper on an improved ensemble remote sensing image classification model leveraging few-shot learning paradigm
- Proposed algorithms and improved accuracy scores by around 10% over traditional few-shot learning models

LEADERSHIP

IEEE UVCE

April 2019-March 2020

Vice-chairperson

- Planned, coordinated, and organized bootcamps, workshops, and hackathons with an attendance of 300 students
- Initiated weekly status update meetings and sync-up nights to ensure team coordination and collaboration