

Lakshay Nanda

213-245-7491 | lnanda@usc.edu | linkedin.com/in/lakshaynanda08 | github.com/lakshaynanda

EDUCATION

University of Southern California, Los Angeles, CA

Master of Science in Computer Science

Courses: Analysis of Algorithms, Software Engineering, Database Systems, Game Development

Aug 2021-May 2023

GPA 3.75

Vellore Institute of Technology, Vellore India

Bachelor of Technology in Computer Science and Engineering

Courses: Data Structures and Algorithms, Operating Systems, Database, Machine Learning, Networks and Communications

July 2016-June 2020

GPA 9.31

TECHNICAL SKILLS

Programming Languages, Frameworks & Packages: Java, Python, JavaScript, React.js, Redux, Vue.js, Vuex, HTML5, CSS, SASS, Kafka, Django, Node.js, REST APIs, Express.js, Zustand, Azure, GCP, Jenkins, AWS, OOP, FastAPI, Kubernetes

Databases: MongoDB, PostgreSQL, Cassandra

Tools: Git, Docker, AWS Lambda, WordPress, Jira, Trello, Asana, Splunk

WORK EXPERIENCE

Walmart Global Tech (*React.js, Redux, Spring Boot, WCNP, Java, JavaScript*)

Jun 2022-Aug 2022

Software Engineer 3 Intern

Bentonville, Arkansas

- Spearheaded the implementation of React Performance Analysis tool deployed in the staging environment of Walmart's CI/CD pipeline to remove manual performance test of React Applications reducing man hours by 50%.
- Devised metrics that play pivotal role in page performance like page & component load time, total times each component was rendered and wasteful component leading to automated dashboard generation in Splunk with event management.
- Pioneered the development of performance APIs in Spring Boot and deployed them on Walmart Cloud Network Platform enabling access to more than 40 teams.
- Streamlined the process of saving and validating module preferences for each module by developing a reusable sub module to store prior searches and reuse them at platform level reducing individual effort by 25%.

Anlyz Cybersecure Private Limited (*Vue.js, Vuex, Django, Elasticsearch, Java*)

July 2020-July 2021

Software Engineer

Bengaluru, India

- Delivered scalable platform to detect security threats using corresponding events and alerts based on predefined rules.
- Headed the development of APIs in Django for Dashboard and Reporting modules of Case Management System for Cyberal.
- Developed a custom dashboard module using Vue.js with a widget builder for dashboards increasing user engagement by 30%.
- Refactored implementation of DRAIN algorithm to parse unstructured logs and improved log parsing time by 20%.
- Created an orchestration tool to import rules and perform automation based on events improving user adoption by 40%.

Anlyz Cybersecure Private Limited (*Vue.js, Vuex, Django*)

May 2019-July 2020

Software Engineer Intern

Bengaluru, India

- Contributed to the development of an Endpoint Detection and Response application developed using Vue.js and Django.
- Implemented a system to white list IPs and host server using Django to authenticate only allowed users to use the tool.

PROJECTS

Cyberal | Python, Django, Vue, PostgreSQL, Docker

July 2020 – July 2021

- Developed a full-stack web application using Django for backend and Vue for front end.
- Implemented a custom dashboard feature with customised widgets with data from various sources (GCP, OCI, CyberArk, Vault).
- Constructed a query builder module to search database and user can set rules to generate Alert and Event logs.

Protect: California State Guard | Node.js, Express.js, Vue, Apex, Salesforce Lightning

Aug 2021 – Dec 2021

- Prototyped a web application for California State Guard to manage and filter employees based on skill level for report generation and assessing mission readiness.

Data Encryption Standard Algorithm : Java Remote Method Invocation & OpenMP | Java, C++

Jan 2019 - July 2019

- Analysed performance by calculating time of execution of DES algorithm serially and parallelly with JAVA RMI and OpenMP.
- Found that OpenMP performed better with a difference of 5ms. Published in: JARDCS

HONORS AND AWARDS

Merit Rank Holder and Merit Scholarship

- Ranked 10th in over 1100 students in the CS Batch at VIT based on GPA. Awarded Merit Scholarship for publishing 5 research papers in various journals and for securing GPA 9.31 over 4 years..

Patent for Electronic Voting System which uses biometrics and facial recognition for authentication

- Developed a voting system to cater to the needs of democracy. Granted design and utility patent.