LAKSHAY NANDA

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EDUCATION

University of Southern California, Los Angeles, CA **Aug 2021-May 2023**
Master of Science in Computer Science **GPA 3.75**
Courses: Analysis of Algorithms, Software Engineering, Database Systems, Game Development

Vellore Institute of Technology, Vellore India **July 2016-June 2020**
Bachelor of Technology in Computer Science and Engineering **GPA 9.31**
Courses: Data Structures and Algorithms, Operating Systems, Database, Machine Learning, Networks and Communications

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

EXPERIENCE

Walmart Global Tech *(React.js, Redux, Spring Boot, WCNP, Java, JavaScript)* **Jun 2022-Aug 2022**
Software Engineer 3 Intern *Bentonville, Arkansas*

- Developed React Performance Analyser & deployed in Walmart's CI/CD pipeline to reduce manual performance test by 50%.
- Devised page performance metrics like page & component load times, number of component renders and number of wasteful components tracked and sent to an automated Splunk dashboard for event management to track performance 20% faster.
- Pioneered the development of performance APIs in Spring Boot and deployed it on Walmart Cloud Network Platform making the functionality scalable 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 and multitenant platform with 10,000+ active users to detect security threats using corresponding events and alerts based on 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)* **Dec 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

AWARDS AND HONORS

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.