


Aman Kr Pandey

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EDUCATION

National Institute of Technology Jamshedpur, India
Bachelors of Technology in Computer Science and Engineering

Jul 2019 - May 2023
CGPA: 8.29/10.0

TECHNICAL SKILLS

Languages: C++, Java, JavaScript, Python
Database: MySQL, PostgreSQL, MongoDB

Technologies: Node.JS, React.JS, Spring Boot, Selenium
Tools: AWS, Git, Docker, Kubernetes, Helm

EXPERIENCE

Oracle CGBU
Associate Software Developer

Aug 2023 - present
Bengaluru, India

- **Spearheaded** and **executed** comprehensive benchmarking strategies to evaluate the performance of the product, identifying key areas for optimization and ensuring alignment with industry standards and performance targets.
- **Enabled** multiple admin access in IAM, enhancing role-based management and control over user permissions. **Implemented** comprehensive logging of critical user events, ensuring improved tracking and auditability of activities. **Developed** and **configured** key metrics pegging, enabling efficient monitoring and analysis of user interactions and system usage
- **Resolved a customer issue** involving token expiry on one API gateway caused by session timeo ut another gateway, identifying root causes, implementing a fix, and ensuring seamless functionality across systems.
- **Implemented TLSv1.3 based communication** between microservices, configuring a specific set of allowed ciphers while eliminating deprecated ones previously used by default
- **Led** the exploration of deployment strategies for the EJBCA PKI server using Helm charts and automated the building from source code, reducing manual work by 75
- **Resolved** issues with **API gateway** to enhance responsiveness and **mitigate D-DOS** vulnerabilities, achieving a **20x improvement** in response time
- **Evaluated** the adopting a new LDAP-based Authentication service, assessed feasibility across various use cases and services

Oracle CGBU
Project Intern

Jan 2023 - Jul 2023
Bengaluru, India

- **Optimized** docker image **size by 30%** through custom JRE build implementation instead of JDK, resulting in **resource savings**
- **Refactored** codebase to integrate with Spring Boot 3.1 across project components, enhancing security by addressing **critical vulnerabilities**
- **Conducted** comprehensive **testing**, including LDAP and SAML integrations, in both HTTP and HTTPS environments

G.E. Healthcare
EID Intern

May 2022 - Jul 2022
Bengaluru, India

- **Engineered an automated system** for real-time **detection of network proxies**, reducing operational time for field engineers by 25%
- Implemented **data center lookups and TCP/IP fingerprint test** to detect client-side proxies
- **Automated** IP address retrieval based on **Autonomous System Numbers (ASNs)**, achieving a **20-fold increase** in speed and significant cost savings for the company

PROJECTS

Application Load Balancer



- Implemented a **load balancer** as part of a coding challenge, enhancing skills in system design and networking.
- Created a comprehensive **system design**, as evidenced by the included design file, demonstrating proficiency in architectural planning.
- Implemented **intelligent request distribution** techniques to optimize server utilization and reduce latency. Utilized **configurable parameters** for load balancer settings, allowing dynamic adjustments based on system requirements.

Website NIT Jamshedpur



- Managed the **backend migration from PHP to Node.JS** which resulted in more up-time and **reduction in loading time from 8325ms to 3280ms**
- Configured **load balancers** using consistent hashing to **decrease downtime** of server by 75%

POSITIONS OF RESPONSIBILITY

Team Lead, WebTeam NIT Jamshedpur

Mar 2021 - Jan 2023

Directed team induction, Conducted online assessment, and hackathon **for 200+ candidates**
Built and maintained the official website of NIT Jamshedpur, **resolving 10+ bugs**
Mentored the team to **implement caching** at the database level to increase efficiency by 20%