Tanvin Kalra

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EDUCATION

The LNM Institute of Information Technology   **Jaipur, India**
Bachelor of Technology, Computer Science and Engineering   *Graduation Date: July 2022*
- **CGPA**: 8.97
- **Accomplishments**: Facebook Hacker Cup'21-Round 2 (Rank 1971), Google Hash Code'21 (Rank 5749), Qualified for Round 1 Google Code Jam'21 and '22

WORK EXPERIENCE

Tartan   **Gurugram, India**
Software Development Engineer   *January 2023 - Present*
- Maintained and extended the user management module, successfully opening business opportunities for B2B clients. Scaled the system to accommodate multiple account creation flows, including Single Sign-On (SSO) integration.
- Directed a small team of developers to resolve the Vulnerability Assessment and Penetration Testing (VAPT) report for our application, bolstering security measures and mitigating potential risks.
- Optimized several product journeys to enhance user experiences, making them more intuitive, efficient, and accessible.
- Facilitated in the migration of the company's application from AWS to a robust multi-cloud architecture.

OYO   **Gurugram, India**
Software Development Engineer - 1   *July 2022 - January 2023*
- Programmed a Backend For Frontend (BFF) service to handle UI requests, as well as fetch and aggregate data from multiple services using Spring Webflux.
- Improved the load time of the front-end service to less than 50% by introducing pagination.
- Optimized the performance of an API by reducing the response time by more than 70% with the help of multi-threading.
- Built a mechanism to emit audit logs to monitor data and probable security breaches using Django Rest Framework (DRF).

OYO   **Gurugram, India**
Software Development Engineer Intern   *January 2022 - July 2022*
- Designed database migrations to accommodate new data fields in the system.
- Developed RESTful APIs to extend the lead-tool management system using Django Rest Framework.
- Maintained and extended the frontend service to include information about the new data being collected.
- Designed and implemented several UI components using Nextjs. Built and integrated a Content Management System using Strapi.

Amazon   **Chennai, India**
Software Development Engineer Intern   *May 2021 - July 2021*
- Developed and Integrated RESTful APIs to support remote activities using Kotlin.

PUBLICATIONS

A Comparative Study and Analysis of Time Series Forecasting Techniques for Indian Summer Monsoon Rainfall (ISMR)   *ANTIC 2022*

PROJECTS

Generating Anime Characters Using DCGANs   *November 2021*
- Evaluated the performance of multiple variants of Deep Convolutional GANs to generate anime characters.
- Conducted various ablation studies to evaluate the effectiveness of specific components in order to determine the component's impact to the overall system.

Classification of Benign and Malignant Tumors   *February 2021*
- Examined machine learning classification algorithms to predict whether a tumor is benign or malignant based on several biological factors.

Tour Planning Frame Based Knowledge Representation System   *December 2020*
- Designed a GUI for tour planning based on the concepts of Frame based KRR.

Minesweeper   *July 2020*
- Programmed an AI agent to predict the position of the mines by employing the principle of propositional logic.

SKILLS & INTERESTS

Skills:

- **Programming Languages**: C | C++ | Java | Python | JavaScript | HTML | CSS
- **Tools and Technologies**: Spring Boot | Spring Webflux | Django | Strapi | Reactjs | Nextjs | Docker | Postgresql | MySQL | Git | AWS | GCP

Interests: Video Gaming, Motion Graphics, Competitive Programming, Football

CERTIFICATIONS

- **SystemsExpert**   *September 2022*
- **Competitive Programming Completion Certificate**   *May 2021*
- **Algorithmic Toolbox**   *November 2020*
- **CS50's Introduction to Artificial Intelligence with Python**   *July 2020*
- **6.00.2x: Introduction to Computational Thinking and Data Science**   *May 2020*
- **6.00.1x: Introduction to Computer Science and Programming Using Python**   *March 2020*