Kavish **Boyal**

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Experience

John Deere   *Bangalore, India*

SOFTWARE ENGINEER 1   *May 2024 - present*

- Tech Stack - Python, AWS, Django, DjangoREST framework, Java, Spring Boot, JavaScript, React JS, Node JS, MySQL, Databricks, PowerBI.
- Designed and developed a plug-and-play chatbot UI integrated with an LLM and NLP backend, enabling seamless adoption across multiple back-end systems; also contributed to backend enhancements.
- Designed and developed a Spring Boot reporting module integrating MS Intune and asset systems for audit-ready device and software/license compliance reporting.
- Led the CI/CD for the product with GitHub Actions and AWS services ensuring automated builds and testing for Spring Boot, React and DJango applications.
- Implemented an audit trail system to track API calls and critical operations, ensuring traceability, accountability, and compliance.
- Worked on LLM experimentation to standardize and normalize SQL-stored textual data, including grouping and deduplicating similar application names.
- Developed and maintained data dashboards using PowerBI and Databricks, delivering actionable insights and enterprise-grade visualizations.

ASM Technologies LTD   *Bangalore, India*

SOFTWARE ENGINEER   *November 2021 - May 2024*

- Client: CommScope, Product: Ruckus IoT controller. Working as a Full Stack Developer, Teck Stack - Python, MongoDB, Django, DjangoREST framework, React JS, Flask, MQTT.
- **Scrum Master (Parallel Role)**: Led the team using Agile and Scrum practices to improve project delivery, collaboration, and product quality. Product was **$700K dollars in sales**.
- Optimized existing MongoDB queries which overall led to **70 % faster** api response.
- Participated in company yearly hackathon and contributed by sharing idea which got integrated in product and resulted in heightened customer satisfaction and an elevated user experience.
- Led comprehensive Scale Testing initiative for critical core APIs and functions of the application, pinpointed performance bottlenecks and proposed strategic solutions.
- Optimized execution time of specific tasks by reducing execution time by 80 % using Celery and enhanced User experience.

Technical Skills

Programming Languages   Python, Java, JavaScript, HTML, SQL
Cloud Services   AWS(Lambda, EC2, ECR, Route 53, S3, ECS, , STS, SQS, AWS Secret Manager, DynamoDB)
Frameworks/Libraries   Django, Spring Boot, ReactJS, Express.Js, NodeJS(JS RE), Flask, OpenSSL
Database   MongoDB, MySQL, , AWS DynamoDB, PostgreSQL

Education

Indian Institute of Information Technology Kota (IIITK)

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Projects

IMAGE GENERATOR APP USING MERN STACK AND AI

- Developed an innovative image generation platform using ReactJS and Tailwind CSS for a responsive UI, integrated with the expressive capabilities of DALL·E API from OpenAI for dynamic image creation based on user prompts.
- Proficiently utilized the MERN stack (MongoDB, Express.js, React, Node.js) for robust data management and RESTful API integration

PORTFOLIO WEBSITE

- Developed a dynamic portfolio website using ReactJS to showcase my proficiency and creativity in web development.
- Designed a responsive user interface with React Hooks, React Icons, and Bootstrap for an engaging user experience.

RECOMMENDATION SYSTEM

- Developed a book recommendation system which uses both content based and collaborative filtering for results and enhances user experience with some extra features like "to read", "to recommend".
- Designed using HTML, CSS, Python, SQLITE3 and DJANGO.

PRISON MANAGEMENT SYSTEM

- Designed and developed a comprehensive Prison Management System as part of a DBMS course, centralizing information about prison staff, criminals, and criminal activities.
- Designed using HTML, CSS, PHP. Utilized MySQL for robust data management and potential future analysis.