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Kushal Shah
Software Development Engineer

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Software Engineer with experience building scalable, production-grade full-stack systems. Strong foundation in problem-solving with a focus on performance and functionality optimization. Proven ability to learn new technologies and collaborate effectively while adhering to Agile methodologies and consistently deliver high-impact, reliable solutions.

PROFESSIONAL EXPERIENCE

Software Development Engineer - Associate   **June 2023 - Present**
Morgan Stanley Capital International (MSCI)   *Mumbai, MH, India*

- Developing robust software solutions to support **80,000+ MSCI Indexes** as part of **Index Engineering and Production team**.
- Leveraging **AI tools like Cursor IDE, Copilot and MCP Servers** across daily software development life cycle.
- Built and maintained reusable **React – Redux** component libraries having **FluentUI, AgGrid**, and MSCI UX Framework as base libraries. Additionally provided an **efficient state management** to complex components with an **inbuilt API integration support** using **Tanstack Query**, ensuring a consistent and intuitive user experience across **10+ Index applications**.
- Designing and Developing **Python Flask REST APIs** and **VueJs** components powering MSCIs Custom Index Platform tool, enabling seamless creation of Index methodologies using **100+ portfolio operators and data points**.
- Engineered and scheduled automated **Python ETL** Jobs on **Linux environment** to synchronize entitlement data from Salesforce and Oracle databases into **Snowflake** and creating **Snowflake shares** comprising **20+ client-ready views** for **30+** Index clients.
- Led end-to-end development of **Index Transparency Tool**, visualizing **1,000+** data points providing rebalancing insights and summary across MSCI indexes to **100+ clients and stakeholders**.
- Following **Test-Driven Development (TDD)** strategies to consistently maintain **90%+ unit test coverage** using **Jest Testing Framework** and **Pytest** enhancing stability and reliability of client-facing Index tools.
- Collaborating in an **Agile environment** to deliver **monthly/biweekly production deployments**, mitigating risks and resolving external packages dependency vulnerabilities identified through **Mend Scan reports**.

Software Development Engineer Intern   **Jan 2022 - July 2022**
Wohlig Transformations Pvt. Ltd.   *Mumbai, MH, India*

- Pursued a **full semester long in-office internship** contributing to **full-stack** development of high-quality software gaming application, directly influencing a user growth jump from **200K to 300K+ users**.
- Acquired skills of writing efficient and optimized code while maintaining it in a collaborative environment.
- Engineered backend services using **Node.js, Express.js,** along with optimizing database operations in **MongoDB** and refining **React.js** UI components to **improve user engagement and overall system performance by 25%.**

EDUCATION

Bachelors (B.Tech.) in Information Technology, *Sardar Patel Institute of Technology*   **Sept 2019 - May 2023**
Core Subjects - Data Structures, Computer Networks, Operating System, Distributed Computing, Human Machine Interaction
Minors in Management, *S.P. Jain Institute of Management and Research*   **Jun 2020 - May 2023**
Core Subjects - Finance and Accounting, Project Management, Risk Management, Automation

SKILLS

Coding Languages	Python, Java, JavaScript, TypeScript
Frontend	React Js, Redux, Vue Js, HTML, CSS, Jest Test Framework, Responsive Design
Backend and APIs	Flask, Spring Boot, Node Js, Express Js, REST APIs, Unit Testing, ETL pipelines
Databases and Cloud	Oracle MySQL, Snowflake, Git, Linux, Azure Devops, GCP, Kubernetes, Docker
AI/ML Technologies	Tensorflow, LangChain, LlamaIndex, RAG pipelines, Vector Databases
Interpersonal Skills	Team-oriented, Collaboration, Leadership, Time management

PROJECTS AND CERTIFICATIONS

AAKAR AI - Intelligent Report Generation Platform (LlamaIndex, Llama Workflows, OpenAI, Python, Flask, React)
- Built an AI-powered reporting system processing **5+ data formats** (Excel, CSV, PDF, JSON, txt), extracting key insights, and producing **custom natural-language reports**, reducing manual analysis time by up to **80%.**
- Implemented RAG architecture using **Llama Workflows** and **LlamaIndex** with created embedding stored in VectorDB storage, improving information retrieval accuracy by **30-40%.**
- GitHub - **Link**, YouTube Demo - **Link**, Devfolio - **Link**

LinkedIn Learning: **React State Management**, **React Securing Applications**
NPTEL: **Cloud Computing**, **Data Analytics with Python**