

Debasis Sahoo

Software Engineer

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PROFILE

Software Engineer specializing in scalable backend systems, API development, and database optimization using Django. Experienced in reducing bug resolution time and *enhancing system performance through efficient database indexing and query optimizations*. Passionate about system design and automation for efficiency.

SKILLS

Programming Languages:

Python, JavaScript

Databases:

MySQL, PostgreSQL, Oracle SQL

Backend:

Django, Django REST Framework (DRF), REST APIs

Frontend:

HTML, CSS, Bootstrap

Cloud

AWS, EC2, S3

Dev Tools:

VS Code, PyCharm, Jupyter Notebook, Git, GitHub

Testing & Libraries:

PyTest, NumPy, Pandas, Matplotlib

Automation:

Scheduler Building, Python Scripting, Celery, APScheduler

Software Development Practices:

Agile (Scrum & Kanban), JIRA for task management, sprint tracking, and bug tracking

System Design:

Scalable architecture, API design, database optimization, Efficient database indexing & query optimization

Data Structures & Algorithms (DSA):

Problem-solving, algorithm optimization, and computational efficiency

PROFESSIONAL EXPERIENCE

Vividhity Venture Pvt Ltd, Software Engineer

03/2024 – present | Bengaluru, India

- Developed scalable backend solutions using **Django & DRF**, ensuring high-performance API interactions and seamless system operations
- Designed and implemented **RESTful APIs**, improving communication between distributed systems and enhancing overall architecture.
- Optimized **MySQL database** queries, reducing execution time and improving data retrieval efficiency for high-performance applications.
- Developed **automated task schedulers** using Celery and Python scripting, reducing manual effort by **10+ hours per week**.
- Enhanced system performance by implementing indexing strategies and query optimizations to handle large datasets efficiently.
- Implemented **authentication** and role-based access control (RBAC), ensuring secure user management and data protection.

- Followed **Agile methodologies** (Scrum/Kanban), participating in daily stand-ups, sprint planning, and retrospectives for efficient project execution.
- Used **JIRA** for task management and sprint tracking, ensuring timely completion of development milestones.
- Collaborated with frontend developers to ensure seamless integration between backend APIs and UI components built with **HTML, CSS, and Bootstrap**.
- Developed unit and integration tests using **PyTest**, ensuring robust, reliable, and bug-free application development.
- Integrated **third-party APIs**, including payment gateways and financial data providers, to enhance platform functionalities.
- Led troubleshooting and **debugging** efforts, identifying performance bottlenecks and implementing solutions to improve system efficiency.

EDUCATION

B.Tech in Computer Science & Engineering,
Biju Patnaik University of Technology

2019 – 2023 | Cuttack, India

PROJECTS

Homedirect, ONDC E-Commerce Platform

- Developed seller site features, focusing on inventory management and order fulfillment to enhance operational efficiency and improve the user experience for sellers.
- Integrated ONDC APIs for seamless product listings, stock updates, and automated order processing, ensuring real-time synchronization and reducing manual effort.
- Conducted API validation, debugging, and optimization to maintain smooth seller-buyer interactions, improving system reliability and response times.
- Participated in ONDC meetings to align seller platform development with industry standards, ensuring compliance and seamless interoperability with the ONDC network.
- Contributed to select buyer site functionalities, including product discovery and order processing, enhancing the user experience and streamlining the purchasing journey.

iStreet, Algo Trading Platform (2024 – Present)

- Developed a **SEBI-registered analyst and advisor management system**, ensuring secure onboarding, authentication, and dashboard functionalities.
- Integrated **Angel One APIs** for real-time market data, order execution, and portfolio tracking, improving trading efficiency.
- Built a **personalized recommendation system** using machine learning, enhancing mutual fund selection and user engagement.
- Designed an **interactive subscription-based dashboard** with graphical insights, real-time analytics, and financial performance tracking.
- Implemented **news analysis and sentiment detection**, providing real-time market updates and investment insights.
- Optimized MySQL queries and indexing strategies, significantly improving data retrieval speed and reducing response time.
- Developed **RESTful APIs** to facilitate seamless integration between frontend and backend systems.
- Followed **Agile Scrum methodology**, using JIRA for sprint tracking, issue management, and task prioritization.