Ajit Omkarnath Mishra

Software Engineer / AI/ML Developer

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SUMMARY

Results-driven Python Developer with hands-on experience in building high-performance web applications and data engineering pipelines. Proficient in FastAPI, Django, and MongoDB, with solid understanding of RESTful API development, scalable backend architectures, and asynchronous processing. Skilled in applying machine learning techniques and creating insightful data visualizations to drive decision-making. Passionate about leveraging AI and modern technologies to deliver impactful, production-grade solutions. Thrive in agile, fast-paced teams with a strong commitment to clean code, problem-solving, and continuous growth.

EXPERIENCE

Software Developer
BIMBOSS Consultant — Ahmedabad, Gujarat, India
May 2025 – Oct 2025

- Developed and integrated **Autodesk Revit plugins** (supporting versions 2022–2025) using **Python** and **.NET**, enhancing 3D modeling automation and **BIM (Building Information Modeling)** workflows.
- Built a **digital twin web application** using **React.js**, **TypeScript**, and **Node.js**, integrated with **Autodesk ACC Cloud** and **Forge Viewer** for real-time 3D model visualization and synchronized data management.
- Collaborated with architects and engineers to streamline design workflows and improve efficiency through intelligent automation and cloud-based BIM integration.

Key Technologies: Python, .NET, React.js, TypeScript, Node.js, Autodesk Forge API, Autodesk ACC Cloud, AWS.

EDUCATION

Master of Computer Applications (MCA)

Chhatrapati Shivaji Maharaj University
08/2022 - 05/2025 Navi Mumbai

Bachelor of Computer Applications (BCA)

Sailee College, Yashwantrao Chavan Maharashtra Open University
08/2020 - 06/2023 Nashik

Higher Secondary Certificate (HSC)

Divine Image College
04/2018 - 05/2020 Maharashtra

Secondary School Certificate (SSC)

S.M. Public High School
04/2016 - 05/2018 Maharashtra

STRENGTHS

Oracle Best Practices

Recognizing the role of Oracle Modern Best Practices in Oracle Cloud Applications

Cloud Transformation

Recommending and using Oracle Cloud Success Navigator and Oracle Cloud Quality Standards to optimize cloud transformation

Data Integration

Understanding data flows and integration points within the ERP modules

SKILLS

AWS **C/C++** **C#** **CSS** **Data Structures** **Django** **GitHub** **HTML** **Java** **JavaScript** **JDBC** **JSP** **Jupyter Notebook** **MatplotLib** **Next.js** **Numpy** **OOP** **Pandas** **Python** **React** **Scikit-Learn** **Seaborn** **SQL** **TensorFlow** **Vue.js** **XGBoost** **Node.js** **DB Modeling** **Servlet** **APIs**

PROJECTS

Real-Time IoT Digital Twin

Real-time digital twin platform integrating IoT devices with 3D models

• Developed a full-stack digital twin system enabling real-time monitoring of assets through IoT sensor data

• Integrated **Cesium Ion** for 3D geospatial visualization and **Autodesk Viewer & Hub** for interactive 3D model management

• Built backend APIs with **Node.js** and **Express.js** for data ingestion, authentication, and real-time streaming

• Designed interactive dashboards using **React.js** and **TypeScript** for seamless user experience

• Deployed on **AWS** (Lambda, IoT Core, S3/DynamoDB) ensuring scalability, security, and high availability

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Fraud Detection System

Machine learning system for fraud detection

- Designed and implemented a machine learning pipeline to detect fraudulent transactions with 92% accuracy
- Conducted advanced feature engineering on transactional data to improve model precision and recall
- Evaluated multiple classifiers, including Logistic Regression, SVC, Random Forest, and XGBoost, selecting the best fit for production deployment
- Visualized data patterns and model results with Seaborn to support fraud analysis and reporting
- Automated model training and data preprocessing workflows to facilitate continuous learning and model updates

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Cross-Version Revit Plugin

Revit plugin for automating workflows and enhancing modeling efficiency

- Developed a **Revit plugin** compatible with multiple Revit versions using the **Revit API**
- Automated repetitive tasks including **parameter updates, model validation, and batch processing**
- Designed a **user-friendly interface** inside Revit for easy access to plugin features
- Ensured **robustness** with exception handling and unit testing across supported Revit versions
- Streamlined **architectural and engineering workflows**, reducing manual errors and improving productivity

Technologies: Revit API, C#, .NET, Visual Studio

INTERESTS

Reading

Reading tech blogs and books

Coding

Coding and building projects