

# Ravi kishore E

Backend Python Developer

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## PROFESSIONAL SUMMARY

Backend Python Developer with a 6-month internship of experience on real time project building scalable, production-grade backend systems using Python, Flask, and Sql. Strong expertise in RESTful API design, microservice architecture, database management (MySQL/PostgreSQL/SQLAlchemy), and distributed storage systems (MinIO, S3). Experienced in workflow automation (n8n), high-performance caching (Redis), authentication/authorization (Keycloak), and structured data formats including JSON and TOON (Token-Oriented Object Notation). Skilled in containerized deployments using Docker, AI/OCR pipeline integration, and CI/CD workflows using Git, Bitbucket. Adept at delivering secure, maintainable, and optimized backend solutions for B2B and B2C platforms.

## TECHNICAL SKILLS

**Programming & Languages:** Python, Object-Oriented Programming (OOP), Backend Development, Web Development, JSON.

**Frameworks & Libraries:** Flask, SQLAlchemy

**Databases & Storage:** MySQL, PostgreSQL, SQL, Redis (Caching ), MinIO, S3-compatible storage.

**Architecture & Infrastructure:** Docker, Service-Oriented Systems

**Authentication & Security:** Keycloak, JWT, Access Token Management

**Testing & QA:** Pytest, Unit Testing, Error Handling, Exception Handling

**DevOps & Tools:** Git, Bitbucket,

**Cloud & Serverless:** AWS S3 ,Serverless Application Development

**Automation & Orchestration:** n8n, Workflow Automation, Webhook Integration

**Data / MLExposure:** Pandas,NumPy,MLworkflows basics

## PROFESSIONAL EXPERIENCE

**Python Developer Intern | Remote**

Jul '25- Present

**Libratherm Instruments**

Mumbai, India

- **Backend Development & API Design** Designed and developed scalable backend services using Python, Flask, and SQLAlchemy, ensuring robust API integration for asynchronous document processing.
- **Database Management:** Managed and optimized MySQL databases to support large-scale data extraction workflows and maintain data integrity.
- **Testing & Code Quality:** Followed best practices for unit testing with Pytest, error and exception handling, and participated in code reviews to maintain high-quality, maintainable code. Collaborated using Git, Bitbucket, and Confluence to manage tasks, version control, and project documentation efficiently.
- **Automation & Workflow Orchestration:** Implemented automated workflows using n8n and webhook-based orchestration.
- **Cloud Storage & Distributed Systems:** Leveraged MinIO for distributed file storage with resumable uploads, enhancing system reliability and scalability.
- **AI & OCR Integration:** Integrated AI/OCR services for intelligent document extraction and schema validation, increasing data extraction accuracy.

**Intern — WordPress Plugin & Payment Integration | Remote**

May '24- Sep 24

**Tems TechSolutions**

Chennai, India

- **Integrated Razorpay payments gateway** into **Wordpress** plugins and provided support for live deployments
- **Resolved** technical bugs and documented troubleshooting procedures for internal and client-facing documentations
- **Testing & Code Quality:** Coordinated with team to implement updated

## KEY SKILLS

SDLC(Software Development Life Cycle), Requirements Analysis, Design & Development, Application Maintenance, Performance Optimization, Security Implementation (TLS/SSL), Scalable System Design, B2B & B2C Applications, Distributed File Storage, Resumable Uploads, Intelligent Document Extraction, AI / OCR Integration ,Pandas , Numpy , basic ML workflows .

## EDUCATION

<b>Bachelor's in Electronic communication engineering (GPA: 77%)</b>	Aug '20 - May '24
<b>VeltechRangarajan Dr.Sagunthala R&amp;D institution of science and technology</b>	Chennai, India

## PROJECTS

<b>Document Extraction Orchestration</b>	Jul '25 - Present
<b>System Libratherm Instrument</b>	Mumbai, India

- Architectural and automated document extraction system leveraging n8n for seamless workflow orchestration and process automation.
- Developed scalable backend services using Flask, and MySQL, enabling asynchronous document processing, audit tracking, and error/exception handling. Integrated AI/OCR technologies and Google GenAI to enable intelligent data extraction, schema validation, and enhanced data accuracy.
- Configured and managed MinIO and Ceph for distributed file storage, supporting resumable uploads and ensuring high reliability and scalability of the storage system. Utilized Git and Bitbucket for version control and followed SDLC best practices, including unit testing, code reviews, and performance optimization.
- Implemented secure data handling practices and ensured system compliance with cloud storage protocols and data protection standards.

<b>Animal Identifier Web Application</b>	Oct '24 - Nov'15'
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- Built application for image-based animal recognition using Gemini API as backend logic.
- User-friendly upload & inference flow and optimized model integration.
- Implemented **image preprocessing and API request validation** to improve prediction accuracy and reduce input failures

<b>Bangalore House Price Prediction (Machine Learning)</b>	Aug '24 - Oct '16'
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- Built ML model for house price prediction using Pandas & Matplotlib for data preparation and visualization.
- Used **Pandas, NumPy, and Matplotlib** for data extraction, feature engineering, and statistical analysis.

## CERTIFICATIONS

- Kaggle Python Course — Python for Data Analysis
- Python for Machine Learning Bootcamp — Udemy by Jose Portilla
- Software Development – Python Programming (MasteringUp)
- Data Analytics Workshop & IoT Sensor Workshop