KOWSALYA S

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github.com/kowsalya2025

SUMMARY

Skilled Python and Django developer with 1+ year of experience building scalable web applications and RESTful APIs, delivering measurable impact through strong problem-solving and agile collaboration. Expert in JavaScript and SQL, with a proven ability to debug and optimize high-performance applications.

EDUCATION

Vetri Technology Solutions   *Jan 2025 - Oct 2025*
Python Full Stack Course   *GPA: 8.5*

Anna University   *2010 - 2014*
B.E in Computer Science   *GPA: 7.5*

INTERNSHIP/TRAINING

Python Full Stack Intern   *Nov 2025 - Dec 2025*
Vetri IT Solutions, Remote

- Developed dynamic web apps using Python, Django, JavaScript, SQL with CRUD and authentication
- Collaborated on Git, improving team efficiency 20% through code reviews
- Implemented agile practices, reducing bugs 15% via rigorous testing

PROJECTS

AL/ML::Product Recommendation Engine (E-Commerce) | *Python, SQLite, Libraries & Frameworks: Pandas, NumPy, Scikit-learn*   *Nov 2025 - Nov 2025*

- Engineered AI/ML recommendation system with Python, boosting user engagement via personalized suggestions
- Built Django backend for seamless processing of user data and real-time recommendation workflows
- Optimized ML models for 30% faster processing, improving system efficiency and scalability
- Deployed full-stack solution in cloud environment, handling 10K+ daily recommendation requests with 99.9% uptime

Cloud Devops: Student Performance Analytics & Online Exam System | *VS Code, Backend: Python Django Framework Django REST Framework. Frontend: HTML, CSS, Bootstrap, JavaScript. Database: PostSQL. Cloud & DevOps Tools: Docker (Containerization) , Docker Compose, Git &, GitHub (Version Control), CI/CD Pipeline (GitHub Actions) ,Linux (Ubuntu Server) ,Cloud Platform (AWS / Azure – EC2 deployment).*   *Dec 2025 - Dec 2025*

- Developed cloud-based online exam system with Python Django, PostgreSQL, improving 30% efficiency in exam management.
- Built analytics dashboard with Python, PostgreSQL, React.js for real-time student performance visualization.
- Engineered CI/CD pipelines with Git, Docker, reducing deployment time by 30%.
- Managed student data with PostgreSQL/SQLite for secure, scalable performance tracking.

Cyber Security: Password Strength Analyzer & Password Manager | *Python, Security & Encryption : Hashing (SHA-256 / bcrypt), Password salting , Secure authentication mechanisms. Frontend : HTML, CSS, Bootstrap. Tools & Environment : VS Code , Git & GitHub , Python Virtual Environment*   *Nov 2025 - Nov 2025*

- Developed a comprehensive password security system using Python and JavaScript
- Architected a robust password manager with AES-256 encryption
- Implemented JWT-based authentication for secure user identity verification
- Optimized system performance by 30% using efficient cryptographic algorithms

TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, HTML/CSS

Frameworks: React.js, Node.js, Django, Flask

Developer Tools: Git, Docker, Google Cloud Platform, VS Code

Libraries: pandas, NumPy, Matplotlib, TensorFlow, scikit-learn