Subhiksha Astagirinathan

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Backend Python & Django Developer with 2 years of experience in building multi-tenant systems with MVC architecture. Designed and developed key features such as cron-job, & schedulers leveraging Celery and a role-based publication management system. My work follows Test-Driven Development (TDD) along with planning & strategizing to execution.

EXPERIENCE

Zemuria, Mercemur Technologies Pvt. Ltd

Backend Developer   Oct 2024 – April 2025

Project: inksigma.com | Oct 2023 – April 2023

Tech Stack: Python Django, Celery, PostgreSQL, Redis, Oauth2, AWS SES, S3

- Developed a **multi-tenant system** enabling users to manage multiple publications.
- Optimized **Django framework** for asynchronous request handling & background tasks.
- Designed **custom authentication & middleware** for secure user management.
- Designed **PostgreSQL** database schema with schema isolation for multi-tenancy.
- Implemented Redis **caching**, reducing database queries by **70%** and improving response time by **40%**.
- Developed a Blog Scheduling feature using Celery
- Built a role-based publication management system with token-based access controls

Backend Intern   April 2024 – Sep 2024

Project: AI Image Processing | April 2024 – Sep 2024

Tech Stack: Python Django, Celery, PostgreSQL, Redis, NumPy, Pandas, OpenCV

- Implemented background subtraction techniques with OpenCV to isolate moving objects in video frames.
- Developed object detection algorithms utilizing OpenCV's **contour detection and morphological operations**

Backend Trainee   Nov 2024 –March 2023

Project: Build a User-friendly Blog Engine | Nov 2023 – March 2023

Tech Stack: Python Django, SQL, HTML, CSS, JavaScript

- Developed a responsive blog platform using Django, enabling seamless content creation and management.
- Integrated PostgreSQL for efficient data storage and retrieval, ensuring robust backend performance.
- **Implemented user authentication and authorization** features to enhance security and user experience.

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TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript, HTML/CSS
- **Backend Frameworks:** Django
- **Databases:** PostgreSQL, MySQL
- **Messaging & Caching:** Redis **DevOps & Cloud:** AWS (S3, SNS, SES), Google Cloud Console
- **Security & Authentication:** OAuth 2.0, JWT
- **CI/CD & Automation**: Git, Jenkins
- **Web Servers:** Nginx
- **Other Tools:** RESTful APIs, Celery

EDUCATION

University   **Aug. 2020 – April 2023**

Bachelor of Science in Biotechnology, Acchariya Arts and Science College,

Villianur, Pondicherry

School   **May. 2007 – May 2020**

Immaculate Heart of Mary Girls Higher Secondary School, Pondicherry