ANDY HENRY

BACKEND DEVELOPER

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SUMMARY

Backend Engineer with 2+ years of experience building scalable web applications, optimizing performance, and automating backend processes. Proficient in Python (Django, FastAPI) and API design, with a solid foundation in Java from college. Skilled in modernizing legacy systems and integrating AWS cloud services to enhance scalability and maintainability.

TECHNICAL SKILLS

Programming Language: Python
Frameworks & Libraries: Django, FastAPI, Pytest
Cloud Technologies: AWS (S3, RDS, ECS, Fargate, ECR, IAM, VPC, CodePipelines, CDK)
DevOps: Docker, CI/CD
Operating Systems: Windows, Linux, WSL

PROFESSIONAL EXPERIENCE

Horizon Media, Inc , Full Stack Developer   **Aug 2023 - Present**

- Optimized and enhanced existing codebases to improve application performance and scalability by implementing efficient algorithms and architectural improvements.
- Led the implementation and integration of new features into web applications, collaborating closely with cross-functional teams to ensure alignment with project requirements and timelines.
- Extensively used Django for developing robust web applications and REST API integrations, employing Django ORM for database interactions and Django REST Framework for API development.

Columbia University , Lead System Programmer   **Aug 2020 - July 2023**

- Automated classroom AV equipment using Python, enhancing system efficiency by 20% through script-based automation of device operations.
- Developed custom Python libraries for controlling projectors, cameras, and other AV equipment, utilizing object-oriented programming and data structures such as arrays, dictionaries, and queues for optimal functionality.

RELEVANT PROJECTS

Python Application for Horizon Media

- Contributed to the development of a feature-rich, full-stack web application using Django, supporting dynamic user interactions and robust backend logic.
- Implemented Django signals to track user activity and generate a detailed, user-based daily change log, enhancing auditability and transparency.
- Led DevOps efforts, designing and deploying cloud infrastructure using the AWS CDK, and integrating services like ECR and Fargate to enable scalable, containerized deployments through Infrastructure as Code (IaC).
- Built and maintained CI/CD pipelines using AWS Code Pipelines to automate testing and deployments, improving release reliability and reducing manual overhead.

EDUCATION

Bachelor of Computer Science - Information Science   **May 2016 - May 2020**
Brooklyn College