# Andy Henry

Backend Engineer with two years of experience in building scalable web applications, optimizing system performance, and designing robust data pipelines. Proficient in Python, with hands-on experience using frameworks such as Django and FastAPI to deliver efficient and reliable backend solutions.

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## TECHNICAL SKILLS

**Languages:** Python
**Frameworks:** Django, FastAPI
**Databases:** PostgreSQL, MongoDB, MySQL
**Cloud & DevOps:** AWS (S3, RDS, ECS, ECR), Docker, Kubernetes, Apache Airflow
**Messaging & Task Queues:** Celery
**Tools:** Git, Postman, Jira, Confluence, MS Teams, Pandas, Numpy
**Operating System:** Windows, Linux

## CERTIFICATION

AWS Certified Solutions Architect - Associate - In Progress

## EDUCATIONAL BACKGROUND

**Bachelor of Science in Computer Information Systems**
The City University of New York - Brooklyn College

## WORK HISTORY

**Full Stack Developer**
Horizon Media | 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.
- Managed the end-to-end life cycle of software development projects, utilizing AWS services for deployment, monitoring, and data management.
- Applied AWS solutions including S3 for secure storage, EC2 for scalable compute, and ECS for container orchestration.
- Resolved user requests promptly, ensuring high levels of customer satisfaction with in-house products.
- Conducted modifications and thorough testing on previously developed programs to ensure ongoing functionality and reliability.
- 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.
- Effectively applied agile methodologies, using tools like Jira, Confluence, and Git for project management, collaboration, and version control.

**Lead Systems Programmer**
Columbia University | 2020 - 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.
- Integrated Python-based scripts with hardware systems using protocols like RS232 and HTTP for seamless communication between AV devices and control systems.
- Designed and implemented event-driven programming solutions to trigger AV equipment actions (e.g., power on/off, switching inputs) based on classroom schedules or user input.
- Built web-based user interfaces using Django for faculty and staff to manage AV settings, streamlining control and reducing technical support needs.