

# DILEN SHAH

Python Developer

Adelaide, SA, Australia

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## SUMMARY

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Python Developer with 15+ years building production systems processing millions of assets across distributed infrastructure. Expertise in REST API design (FastAPI, Django), PostgreSQL database architecture, and containerized deployments (Docker, Kubernetes). Proven track record architecting scalable data pipelines, automating CI/CD workflows, and delivering high-availability services. Seeking to leverage deep systems programming experience in a python and engineering role.

## TECHNICAL SKILLS

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**Languages:** Python (15+ years), SQL, C++, Bash, JavaScript

**Backend Frameworks:** FastAPI, Django, Flask, SQLAlchemy, Celery, pytest

**Databases:** PostgreSQL, MySQL, Redis, MongoDB

**DevOps & Infrastructure:** Docker, Kubernetes, Linux Administration, CI/CD (GitHub Actions, Jenkins), Git

**Architecture:** REST API Design, Microservices, Message Queues, Async Processing, TDD

## PROFESSIONAL EXPERIENCE

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### Pipeline Technical Director

Jan 2021 – Present

*Rising Sun Pictures, Adelaide*

- Architected REST APIs and middleware services handling 50,000+ daily requests for cross-platform data synchronization across distributed production systems.
- Designed and optimized PostgreSQL schemas for asset metadata, reducing query latency by 60% through strategic indexing and query refactoring.
- Built automated CI/CD pipelines using Docker containers, cutting deployment time from hours to minutes and achieving 99.5% deployment success rate.
- Developed Python automation frameworks that reduced manual processing tasks by 40%, improving team throughput across 200+ concurrent users.
- Led technical integration projects coordinating API contracts and data formats between internal services and external vendor systems.

### Senior Software Developer

Mar 2019 – Jan 2021

*Mill Film / Mr. X, Adelaide & Toronto*

- Engineered Python-based microservices and REST APIs enabling real-time data exchange between distributed production facilities across three continents.
- Designed extensible plugin architecture supporting 15+ third-party integrations, reducing integration development time by 50%.
- Implemented version control automation and deployment pipelines serving 100+ developers across multiple time zones.
- Built asynchronous task queues for batch processing, handling 10,000+ daily jobs with automatic retry and failure recovery.

## Lead Technical Director

Apr 2017 – Mar 2019

*Rising Sun Pictures, Adelaide*

- Developed Python tooling and automation scripts for asset management systems, improving data pipeline efficiency by 35%.
- Built automated testing frameworks and validation systems ensuring data integrity across production workflows.
- Led R&D initiatives exploring machine learning integration, prototyping Python services for procedural generation.

## Lead Technical Director

Sep 2012 – Oct 2016

*Dwarf Animation Studio, France*

- Led technical development of Python-based production systems from prototype through production deployment.
- Upgraded legacy Python toolsets and plugins, modernizing codebase and improving maintainability.
- Collaborated with cross-functional teams to deliver projects on schedule while maintaining quality standards.

## PROJECTS

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### Real-Time Collaboration Board — *Python, FastAPI, WebSockets, PostgreSQL, Redis, Docker*

- Microservices-based project management application similar to Trello with real-time updates via WebSockets.
- Implemented JWT authentication, Redis caching, and PostgreSQL with SQLAlchemy ORM.
- Containerized with Docker Compose; deployed with CI/CD pipeline.

### Stress Checker Mobile App Backend — *Python, FastAPI, PostgreSQL, HealthKit Integration*

- REST API backend for health monitoring app with Apple Watch heart rate data integration.
- Designed database schema for time-series health metrics and user session management.
- Built guided breathing exercise engine with configurable patterns and progress tracking.

## EDUCATION

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### Bachelor of Computer Science (Animation)

2008 – 2011

*SAE Institute University*

### Diploma in Advanced Computer Animation

2011 – 2013

*AnimSchool — Specialization in technical direction and production pipelines*

## ADDITIONAL

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**Languages:** English (Native), French (Professional)