

# REUBEN GEDGE

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## SKILLS

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**Languages:** Python, Java, C, C++, Haskell

**Frameworks & Tools:** Django, SQL (Oracle), Kubernetes, Jenkins, Ansible, Terraform

**Specializations:** API Development(REST), CI/CD Pipelines, Databases

## WORK EXPERIENCE

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**Software Engineer - JPMorgan Chase (Gaia Oracle Services)**

**Software Engineer III**

*2026-Present*

- Containerised legacy Django applications to now run on JPMC's internal offering of Kubernetes.
- Re-architected application tech stack to meet SWISS compliance regulations, allowing our application to deploy within SWISS firewall.
- Designed Agent to parse and compute internal workflow questions for developers.

**Software Engineer II**

*2024-2026*

- Designed advanced database access reporting and monitoring across 25,000+ Oracle instances, categorizing access to comply with JPMC's PAM standards, reduced reporting times by over 95% and decreased storage requirements by 85%.
- Optimised Django-based API to handle daily reporting of 46.8 million privileges and users.
- Implemented a REST API Just-in-Time (JIT) access solution to provide secure and monitored privileged access during break glass scenarios.
- Supported the infrastructure for over 25 applications deployed on AWS and On-Prem, ensuring 99.99% availability and compliance with PCI, SOX, and audit standards.

**Software Engineer I**

*2023-2024*

- Enabled SOX compliance by introducing reconciliation in our security drift monitoring API, 99.96% → 99.999%, for a 240,000 weekly publication volume.
- Modernised 15 Python applications.
  - Created zero-downtime CI/CD pipelines for seamless application deployment, leveraging automated unit testing and vulnerability scans.
  - Python(3.6 → 3.11) and Redhat (6 → 8) Upgrades.
  - Microservice abstractions of previous Python scripts for reusability and scalability.

**Consultant**

*2022-2023*

- Identified and corrected misconfigured database billing, increasing profits by \$150,000 monthly and created ongoing monitoring via Geneos alerts.
- Led cross-team meetings with critical services in our operations, resolving errors that affected more than 7,000 Oracle databases.

## EDUCATION

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**University of Edinburgh**

*September 2017 - June 2021*

BSc Hons Computer Science: School of Informatics

1st Class