JAMES REA

LinkedIn: james-rea ◇ GitHub: jfgrea27
London, UK
(+44) 7305 095 160 ◇ Email: jfgrea27@gmail.com

English & French native highly technical Senior Software Engineer focused on scaling AI applications.

TECHNICAL STRENGTHS

Languages	Python, Go, ReactJS, SQL, Scala, Rust, C, Elixir
Infrastructure	AWS, Terraform, Kubernetes, RabbitMQ, PostgreSQL
DevOps	Git, CircleCI
Certification	Kubernetes CKAD, Azure AZ-900 Cloud Fundamentals

WORK EXPERIENCE

Hazy → SAS Technologies Software Engineer → Senior Software Engineer *Sept. 2022 - Current*

- Key contributor to scaling Hazy's AI platform to an elastic distributed Kubernetes application. This project lead to a 50% reduction in our AWS costs.
- Designed and monitored Hazy's SaaS demo platform, built with Terraform and Python, achieving 200+ signups.
- Currently, helping to integrate Hazy's core Python services to SAS' GoLang services, directing on design decisions (incl. REST API and database models).

JPMorgan & Chase Associate Engineer *Oct. 2021 - Aug. 2022*

- Built a time-critical financial portfolio optimiser, developing both ReactJS frontend and Python backend, reducing latency via Redis caches.
- Maintained 40+ legacy microservices daily batch process, increasing scalability tenfold through triggering concurrent processes.
- Volunteering at JPMC's ForceForGood tech program, helping a charity optimise their databases.

ForwardU Tech (FWU) Luxembourg Junior Backend Engineer *Nov. 2020 - Sept 2021*

- Developed several Python microservices for an event-driven portfolio management platform.
- Built several risk reports in SQL, providing auditability for fund managers.

EDUCATION

Imperial College, London *Sept. 2019 - Sept. 2020*
MSc Computing Science 75% (Distinction)

University of Birmingham, Birmingham *Sept. 2015 - June 2019*
BA Mathematics and Philosophy 84% (First Class) [Ranked first in graduating class]

PROJECTS

RabbitMQ Operator - June 2024 - a Kubernetes Operator writing in GoLang for managing RabbitMQ users and permissions, relying on CRDs, Finalizers and Owned References Kubernetes primitives.

Spark PrivBayes - Sept. 2024 - running Bayesian network AI model on an Apache Spark cluster to improve horizontal scalability of model.

Word2Mouth - Summer 2020 - PoC Android-based eLearning platform to enable access to education in areas of low internet/low literacy. Project has been recognised by IEEE Global Engineering Educational Conference in 2021, with research paper published in April 2021.