# Mark Rofail

London, UK

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## Experience

#### **Software Development Engineer II**

November 2022 - Present | London, UK

- · Led the primevideo.com Ads project, boosting ad engagement by 15% through feature flag-driven changes across 50+ microservices, enhancing customer experience.
- Drove the primevideo.com detail page redesign, achieving a 21
- Architected an automated chaos-testing workflow, improving system stability by 30% and resolving memory leaks in distributed systems.
- Ensured 99.99% uptime for primevideo.com by leading on-call rotations and delivering critical support for service availability.

#### Software Development Engineer II

GoCardless

October 2021 - October 2022 | London, UK

- Led development of a fraud prevention tool, reducing fraudulent payments by 23% through open-banking integration and machine learning, in collaboration with data analysts and product managers.
- Enhanced fraud detection accuracy by 27% by deploying a machine-learning server to monitor direct-debit transactions, improving system resilience.
- Engineered a payment intelligence dashboard, boosting merchant satisfaction by 31% by enabling customized fraud checks based on data insights.

## **Software Development Engineer**

Shahry

July 2020 - September 2021 | Cairo, EG

 Reduced monolith deployments by 40% by building a microservice for third-party integrations, streamlining vendor-specific updates and enhancing deployment efficiency.

#### **Software Development Engineer**

Informatica Middle East June 2019 – June 2020 | Alexandria, EG

## Education

**BSc. Computer Science** 

German University in Cairo September 2014 - June 2019 | Cairo, EG GPA: 3.9 / 4.0 | Highest Honors

#### Skills

Programming Python, Ruby, Typescript, Java Frameworks Django, FastAPI, Rails, React **Testing** Pytest, Jest, Selenium, Cypress PostgreSQL, MongoDB Database Docker, AWS, Kubernetes DevOps

# **Projects & Publications**

#### **ICVES Publication**

Multi-Modal Vehicle Attack Detection 🗹 Technologies: Tensorflow, Python

- · Simulated camera-based attacks by manipulating the vehicle's camera feed.
- · Manufactured a multi-modal module to identify discrepancies between the vehicle's image and LiDAR sensors.

#### **Google Summer of Code**

PostgreSQL Contributor

Technologies: C, C++

- · Enabled GIN index-scan between polymorphic array types by adding new operators.
- Optimized guery performance from 25ms to 2ms using a GIN index, compared to the original work.

# Leadership & Awards

**Coding Workshops** - 2022

Conducted bi-weekly Ruby coding challenge sessions for new hires.

#### **Best Hackathon Project** - 2022

Developed a Slack-bot to capture individual achievements to streamline referencing during performance evaluations.

#### Google GSOC Mentor - 2021

Mentored student throughout their PostgreSQL project.

**Bachelor Project Supervisor** - 2021

Supervised three undergraduate students in their bachelor projects.

Hacktoberfest Award - 2020

Successfully made for open-source contributions during October.

**ICVES Best Paper Award** - 2019

Selected as the best paper out of 54 submissions.