

Nicolas Tividor

SOFTWARE ENGINEER

PROFESSIONAL SUMMARY

Software Engineer with production experience designing and deploying scalable backend systems across 600+ digital assets nationwide. Strong expertise in Python (Django), JavaScript (Node.js, React), and Java (Spring Boot), with hands-on experience in AWS, Linux, CI/CD pipelines, and relational/non-relational databases. Recently completed a Master of Software Engineering with research focus on diffusion-based computer vision models. Seeking junior to mid-level software engineering roles in backend, full-stack, or applied AI environments.

TECHNICAL SKILLS

Languages	Python, JavaScript, Java, C#, SQL
Frameworks	Django, Node.js, React, Spring Boot, Unity
Databases	PostgreSQL, MySQL, MongoDB, Neo4j
Cloud & DevOps	AWS EC2, Linux, Jenkins, CI/CD, REST APIs
AI / ML	PyTorch, Diffusion Models, Computer Vision fundamentals

PROFESSIONAL EXPERIENCE

- 07/2023 – Present **Digital Analyst & Software Engineer – QMS Media (Sydney)**
- Designed and deployed a Django-based monitoring platform hosted on AWS EC2 tracking 600+ digital billboard assets nationwide.
 - Developed backend APIs and automated offline detection logic for real-time fault monitoring.
 - Integrated multiple third-party systems (Optus, LogMeIn, Outdoorlink) into a centralized monitoring interface.
 - Led migration of digital asset players from Windows to Linux, improving system stability and security.
 - Implemented CI/CD pipelines using Jenkins to streamline deployment workflows.
 - Optimized PostgreSQL database queries to enhance dashboard performance and reliability.

2016 – 2022

Risk & Data Analyst – Compass Group (Bogota)

- Designed centralized investment database architecture supporting \$5B+ AUM portfolio monitoring.
 - Applied data-driven methodologies to improve risk reporting and analytics workflows.
 - Contributed to integration of quantitative analysis into financial decision-making systems.
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PROJECTS

Diffusion-Based Image Synthesis – Master's Research

- Developed conditional diffusion models using PyTorch for computer vision tasks.
- Built modular training and evaluation pipelines with custom metrics.
- Conducted experimental validation and performance analysis on large datasets.

Favour Mobile App (In Development)

- Designing architecture for a service-based marketplace application.
 - Exploring Swift for iOS development and App Store deployment.
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EDUCATION

2023 - 2026 **Master of Software Engineering Software**
 University of Sydney

2012 - 2017 **Bachelor of Finance**
 Externado University

LANGUAGES

Spanish Native language
English C1 Level

REFERENCES

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