

# Nicolas Tividor

## SOFTWARE ENGINEER

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### 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.

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### TECHNICAL SKILLS

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

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### PROFESSIONAL EXPERIENCE

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| 07/2023 – Present | <b>Digital Analyst &amp; Software Engineer – QMS Media (Sydney)</b> <ul style="list-style-type: none"><li>Designed and deployed a Django-based monitoring platform hosted on AWS EC2 tracking 600+ digital billboard assets nationwide.</li><li>Developed backend APIs and automated offline detection logic for real-time fault monitoring.</li><li>Integrated multiple third-party systems (Optus, LogMeIn, Outdoorlink) into a centralized monitoring interface.</li><li>Led migration of digital asset players from Windows to Linux, improving system stability and security.</li><li>Implemented CI/CD pipelines using Jenkins to streamline deployment workflows.</li><li>Optimized PostgreSQL database queries to enhance dashboard performance and reliability.</li></ul> |
| 2016 – 2022       | <b>Risk &amp; Data Analyst – Compass Group (Bogota)</b> <ul style="list-style-type: none"><li>Designed centralized investment database architecture supporting \$5B+ AUM portfolio monitoring.</li><li>Applied data-driven methodologies to improve risk reporting and analytics workflows.</li><li>Contributed to integration of quantitative analysis into financial decision-making systems.</li></ul>  |
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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

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| 2023 - 2026 | <b>Master of Software Engineering Software</b><br>University of Sydney |
| 2012 - 2017 | <b>Bachelor of Finance</b><br>Externado University                     |

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## LANGUAGES

|         |                 |
|---------|-----------------|
| Spanish | Native language |
| English | C1 Level        |

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## REFERENCES

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| Arafat Hossain | DIGITAL ASSET DIRECTOR<br>arafat.hossain@qmsmedia.com<br>PH: +61 433 958 227 |
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