

JOSE EDUARDO TIRADO VERBEL

Backend Engineer (Python / Node.js)

APIs | Microservices | Cloud-Native Systems

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SUMMARY

Backend Engineer experienced in designing, developing and maintaining backend systems and APIs in production environments. Specialized in Python and Node.js, with a strong focus on microservices, AI integrations, asynchronous processing and cloud deployments on AWS and Azure. Experienced in working with relational and NoSQL databases, process automation, and supporting business-critical systems in production.

EXPERIENCE

Backend Engineer | Dichter & Neira Research | 2022 – Present

- Designed and developed backend APIs and services in Python (FastAPI), improving platform efficiency and reducing query times through async refactoring and indexed access paths.
- Built internal tools end-to-end, developing backend services and frontend interfaces using Angular and React (Next.js, Vite).
- Integrated AI-driven solutions into backend services for audit workflows, improving product and SKU image analysis accuracy through structured-output vision pipelines.
- Collaborated with the AI team to implement computer vision pipelines for audit process automation.
- Provided production support for critical APIs and applications, ensuring high availability.
- Contributed to the migration of cloud infrastructure from AWS to Azure, improving scalability headroom and optimizing operational costs.

Backend Engineer | Periferia IT Group – Banco Falabella | 2021 – 2022

- Developed backend services and APIs using Node.js to support internal business processes.
- Implemented Python-based automations to optimize operational workflows and reduce manual effort.
- Provided production support for business-critical applications built in C#, ensuring system stability and service continuity.
- Worked in agile (Scrum) environments, collaborating with cross-functional teams.

Backend Engineer | Tata Consultancy Services – CitiBank | 2021

- Developed backend services for electronic invoicing systems using Node.js, ensuring high accuracy in transaction processing.
- Implemented Python-based automations to improve operational efficiency.
- Provided production support for critical applications built in C# and AngularJS, ensuring availability.

Backend Software Engineer | WOM Colombia | 2020 – 2021

- Developed backend applications using Python and Django to support internal processes.
- Designed and optimized data models and queries on Oracle Database to improve reliability and performance.
- Implemented backend-driven features with basic frontend support when required.
- Collaborated with development and support teams to maintain stable production systems.

SKILLS

Python, Node.js, Backend Development, APIs, Microservices
PostgreSQL, MongoDB, SQL Server, Oracle
Docker, Kubernetes, CI/CD, AWS, Azure
Redis

EDUCATION

B.S. in Systems Engineering | Universidad de Córdoba
IT & Networking Technician | Tecnológico San Agustín