

NICOLAS DONATI

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EDUCATION

Monterrey Institute of Technology

B.S. in Computer Science and Technology — Academic Excellence Scholarship

Monterrey, México

Expected Graduation: May 2028

EXPERIENCE

Amazon

January 2025 – April

Software Engineer Intern

Mexico

- Architected an **automated invoicing system** in **Java** with a multidisciplinary team, accelerating the tax compliance process for the end user **fourfold**.
- Engineered comprehensive **integration tests** for **tax compliance**, ensuring a seamless and secure system rollout across the entire LATAM region.
- Developed and deployed a scalable **AWS Lambda microservice** to streamline internal operations, dramatically optimizing the efficiency and reliability of our development pipeline.

Nauphilus

December 2024 – Present

Software Engineer

Mexico

- Spearheaded the overhaul of an existing **machine learning powered interview platform** in **Java**, effectively doubling the customer base.
- Designed a robust **API infrastructure** to optimize interview processing, reducing operational costs while boosting site performance by 300%.
- Revitalized the **user experience** by redesigning the front-end with **Angular** and TypeScript, achieving an 80% reduction in customer complaints.

Junior Software Engineer

April 2024 – November 2024

Rustiker

Mexico

- Developed an **AI chatbot** leveraging **OpenAI APIs** and **Python**, reducing customer response times by **75%** and boosting conversion rates.
- Orchestrated the automation of routine customer service tasks, reducing labor costs by **80%** while efficiently handling over **500 daily inquiries**.
- Created comprehensive **data visualization dashboards** using **Tableau**, providing actionable insights that contributed to improved sales performance.

Software Engineer Intern

May 2023 – August 2023

AXA

United Kingdom

- Refined payment disbursement algorithms using **Python**, reducing processing latency by **20%** and achieving near-perfect transaction accuracy.
- Designed a robust **RESTful API** using **Django**, facilitating seamless integration with three major internal systems and improving data flow.
- Built an automated reporting tool for insurance claims, increasing daily report generation by **2 cases per agent** and substantially reducing manual workload.

PROJECTS

NASA Space Apps Challenge — Third Place | Django, PyTorch, TensorFlow | BIMM

October 2024

- Developed BIMM, an advanced data processing program for analyzing and visualizing potential seismic activity signals from Mars and the Moon, optimizing data transmission to Earth.
- Utilized **PyTorch** and **TensorFlow** to implement a 7-step pipeline for data reduction, achieving an average of **95% file size reduction**, significantly enhancing the efficiency of extraterrestrial data processing.

Hack Monterrey — Second Place | Django, TensorFlow, Google Cloud, Docker | GreenGuard

September 2024

- Built GreenGuard, a plant disease detection platform, using **machine learning** and **convolutional neural networks**. Reached finals at HACKMTY, one of **America's largest hackathons**.
- Led full-stack development as Project Manager, using **Django** and **TensorFlow**. Deployed on **Google Cloud**, competing for a spot at Hack Harvard.

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript, C++.

Developer Tools: AWS, PostgreSQL, Docker, Redis, Apache Kafka, Google Cloud.