

David Hinojosa Gonzalez

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EDUCATION

- Aug 2020 – Dec 2024
Monterrey, Mexico
B.S. in Computer Science and Technology, *Tecnológico de Monterrey*
Data Structures and Algorithms | Databases | Computer Networking | Operating Systems | IoT | Web Development | App Development
- Sep 2023 – Jun 2024
Leeds, England
B.S. in Computer Science - Exchange Year, *University of Leeds*
Distributed Systems | Parallel Computing | Web Services | Secure Computing

PROFESSIONAL EXPERIENCE

- Jun 2024 – Aug 2024
Monterrey, Mexico
Data Engineer, *Ito's Tintorerías*
- Built an automated ETL pipeline to sync data from legacy MySQL database to a read-only PostgreSQL database, enhancing analytics accessibility
 - Reduced analytic report generation time from 2-4 days to seconds, significantly boosting operational efficiency and accelerating decision-making for over 30 stores
 - Deployed a self-hosted Metabase instance, providing colleagues with an intuitive query and dashboard builder with automated email reporting
- Jun 2022 – Sep 2023
Monterrey, Mexico
Backend Engineer, *Scan3D*
- Designed REST API, relational database, and services for a health-oriented e-commerce marketplace using FastAPI and PostgreSQL
 - Identified an SQL bottleneck caused by ORM lazy loading in legacy code and successfully reduced database calls by 90%.
 - Automated project's testing, linting, and building for deployment using GitHub Actions, Google Cloud, and Docker
 - Worked with external API's such as Stripe and Google Maps

PROJECTS

- Mar 2023 – Jun 2023
Human Resources Chatbot - Perficient, *Backend Engineer | Product Owner*
- Designed and implemented an AI-powered personal assistant tailored specifically for local tech-consulting company, leveraging ChatGPT's API for superior user interactions.
 - Enabled seamless integration with project management tools and other key platforms to optimize task handling, team collaboration, and information retrieval using natural language (Azure DevOps, Outlook, and MSSQL database)
 - Containerized the Python FastAPI backend service with an Angular frontend, deployed on Microsoft Azure
- Oct 2022 – Dec 2022
Abuelitos ABP, *Backend Engineer*
- An iOS app for elderly patients that tracks patient's status through interactive tests. Doctors can access and analyze test results using an online dashboard.
 - Developed a REST API and relational database using FastAPI and PostgreSQL
 - Managed deployments on Digital Ocean via an integrated CI/CD workflow.

ORGANIZATIONS

- Jul 2023 – Aug 2023
Summer Camp by Nuevo León Software Council, *Teacher*
- 20-hour intensive course to promote interest in tech and computational thinking for students in Mexico, ranging from elementary to high school
 - Helped students create a final project from the ground up using MIT's App Inventor
 - Improved technical teaching skills

SKILLS

Programming Languages

Go | Python | SQL | C/C++ | TypeScript | C# | Lua | SwiftUI | R | Dart | MATLAB

Frameworks and Tools

Linux | Git | Docker | PostgreSQL | Grafana | TailwindCSS | RabbitMQ | FastAPI | SQLAlchemy | Django | NeoVim | Unity | AWS | GCP | Terraform

Technical Skills

Data Structures and Algorithms | Cloud Computing | Database Design | System Design | Agile Development | DevOps | Data Engineering

LANGUAGES

- Spanish (Native)
- English (Highly Proficient)
- German (Proficient)