

David Hinojosa Gonzalez

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EDUCATION

Aug 2020 – Dec 2024 Monterrey, Mexico	B.S. in Computer Science and Technology , <i>Tecnológico de Monterrey</i> 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 , <i>University of Leeds</i> Distributed Systems Parallel Computing Web Services Secure Computing

PROFESSIONAL EXPERIENCE

Jun 2024 – Aug 2024 Monterrey, Mexico	Data Engineer , <i>Ito's Tintorerías</i> <ul style="list-style-type: none">Built an automated ETL pipeline to sync data from legacy MySQL database to a read-only PostgreSQL database, enhancing analytics accessibilityReduced analytic report generation time from 2-4 days to seconds, significantly boosting operational efficiency and accelerating decision-makingDeployed 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 , <i>Scan3D</i> <ul style="list-style-type: none">Designed REST API, relational database, and services for a health-oriented e-commerce marketplace using FastAPI and PostgreSQLIdentified 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 DockerWorked with external API's such as Stripe and Google Maps

PROJECTS

Mar 2023 – Jun 2023	Human Resources Chatbot - Perficient , <i>Backend Engineer Product Owner</i> <ul style="list-style-type: none">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 (City Name) , <i>Backend Engineer</i> <ul style="list-style-type: none">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 PostgreSQLManaged deployments on Digital Ocean via an integrated CI/CD workflow.

ORGANIZATIONS

Jul 2023 – Aug 2023	Instructor - Summer Camp by StateName Software Council <ul style="list-style-type: none">20-hour intensive course to promote interest in tech and computational thinking for students in Country, ranging from elementary to high schoolHelped students create a final project from the ground up using MIT's App InventorImproved technical teaching skills
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SKILLS

Programming Languages

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

Frameworks and Tools

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

Technical Skills

Data Structures and Algorithms | Database Design | REST API Design | System Design | Agile Development | DevOps | Data Engineering

LANGUAGES

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