Johann Vásquez — Computer Science Engineer

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○ JohannVasquez

Profile

I am a Computer Science Engineering student at Universidad Técnica Federico Santa María with experience in web development using technologies such as **Docker**, **React Native**, **React**, **Express** and **FastAPI**.

Professional Experience

Baiko   **Santiago, Chile**
Backend Engineer Intern   *Nov 2025 – Present*

Development of backend solutions for the digitization of Human Resources processes.

○ Design and development of **RESTful APIs** following **Clean Architecture** principles with **Express** and **PostgreSQL** for managing vacation requests and payroll slips.
○ Implementation of robust security mechanisms, implementing **JWT** authentication and **Role-Based Access Control** to protect critical endpoints.
○ Optimized relational database modeling to ensure the integrity and persistence of sensitive corporate data.

HappyAgro   **Santiago, Chile**
Development Intern   *Jan 2024 – Mar 2024*

○ Web app development using **ReactJs** to populate a **MySQL** database from Excel.
○ Data cleaning and loading into the **MySQL** database.

Education

Universidad Técnica Federico Santa María   **Santiago, Chile**
Computer Science Engineering   *2021–2026 (in progress)*

Liceo Industrial Bicentenario Chileno Alemán de Ñuñoa   **Santiago, Chile**
Electronics Technician   *2017–2020*

Technical Skills

Languages: Go, Python, JavaScript, Typescript, SQL, HTML, CSS, PHP.

Technologies: Docker, React Native, React, Nextjs, Express, FastAPI, gRPC, Laravel.

Databases: MySQL, PostgreSQL, MongoDB.

Tools: Git, Postman.

Additional: C++ (Competitive Programming).

Relevant Projects

2025: 🌐 ValiDocu : Intelligent document validation platform that detects regulatory gaps and generates automatic suggestions using **LayoutLMv3** as the **AI** engine for semantic document analysis. Includes document management features, secure storage, and report generation for audits and regulatory compliance. Developed with a focus on **scalable architecture** and integrated with **Docker**, **React**, **Laravel**, **FastAPI** and **PostgreSQL**.

Relevant Academic Projects

2023–2024: ⦿ **Financial System**: Developed a web app using **ReactJS** and **Express**. Features include loan and credit simulations, customer and employee account management (Analyst and Supervisor), and workflow handling for analyst and supervisor roles.

Languages

Spanish: Native.

English: Advanced (reading, writing, and listening comprehension), Intermediate (speaking).

Interests

Technology: Backend development, Fullstack development, Software architecture.

Hobbies: Basketball, online gaming, competitive programming.