

# Johann Vásquez | Computer Science Engineer

Santiago, Chile

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## 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



*Backend Engineer Intern*

**Santiago, Chile**

*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.



*Development Intern*

**Santiago, Chile**

*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**

*Computer Science Engineering*

**Santiago, Chile**

*2021–2026 (in progress)*

**Liceo Industrial Bicentenario Chileno Alemán de Ñuñoa**

*Electronics Technician*

**Santiago, Chile**

*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

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**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

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**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

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**Spanish:** Native.

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

## Interests

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**Technology:** Backend development, Fullstack development, Software architecture.

**Hobbies:** Basketball, online gaming, competitive programming.