



Sergio Alejandro Vera Mella

Computer Science Engineer

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Professional Experience

2025-08 – Present

KnockIt Property Rent

Position:

Tech Lead

Work Experience:

- Technical leadership in architecture decision-making, defining development standards, project structure and technology stack.
- Strengthened security at the database and infrastructure level, establishing best practices for access control, credential management and secure configuration of cloud services.
- Full-Stack Development of a web platform for investment property management, using **React** with **TypeScript** and Vite to build modern, responsive and high-performance interfaces.
- Back-End architecture design and RESTful API development with **Node.js** and Express, ensuring scalability and maintainability.
- Design and implementation of AWS infrastructure, using services such as **S3, CloudFront, ECR, EC2, Route 53, Certificate Manager** and **IAM**.
- Application containerization and deployment with **Docker**, managing consistent environments from development to production.
- Evaluation and adoption of new technologies, including **AI-based solutions**.
- Integration and maintenance of relational databases, including **SQL Server** and **MySQL**.

2024-07 – Present

Ingeniería Civil Vicente (ICV)

Position:

Full-Stack Developer

Work Experience:

- Front-End Development focused on migrating desktop software to web platforms using React with TypeScript, optimizing the build process with Vite.
- Implemented interactive and responsive UIs with Handsontable, Shadcn, Ant Design, Lucide Icons, and TailwindCSS.
- Zustand library for centralized state management, improving data synchronization and application performance.
- Integrated APIs with Axios, ensuring efficient and secure communication with the Back-End.

- Back-End Development of APIs in .NET Core with C#, using Entity Framework for a stable and scalable data flow.
- Worked with PostgreSQL for data storage and management.

2023-06 – 2024-04

Vibia

Position: Front-End Developer

Work Experience:

- Front End dynamic web applications development featuring 3D user interfaces with React, using Three.js and React Three Fiber libraries.
- Global State management with Jotai to enhance application performance.
- Back End RESTful APIs development with Node-RED low-code platform for fast deploy and intergration.
- Comprehensive Unit Testing using Jest along with Test-Driven Development methodology to ensure the reliability and robustness of the software.
- Domain-Driven Design principles to design scalable and maintainable solutions.
- Trunk Based Development methodology with CI/CD practices for agile and seamless deployments.
- Pair Programming sessions following Scrum agile methodology, fostering collaborative problem-solving and knowledge sharing.

2019-03 – 2023-04

Larrain Vial S.A. – Corredora de Bolsa

Position: Full-Stack Developer and Team Leader

Work Experience:

- Performing comprehensive project analysis, precise estimation, and efficient task delegation for company projects.
- Front End dynamic web applications development with Microsoft .NET, following MVC pattern, using ASP.NET Razor, C#, Ajax, JQuery and Bootstrap.
- Back End SOAP Web Services and RESTful API development with Microsoft .NET, using C#, Entity, Dapper, Swagger and LinQ.
- High Complexity Stored Procedures development in Microsoft SQL Server.

2017-06 – 2018-02

Grupo HDI

Position: Software Engineer

Work Experience:

- Creation of Automation test with HPE Unified Functional Testing (UFT) and VBScript.
- Development of Automation tests for websites with Selenium using Java.

2016-06 – 2016-08

Socofin S.A.

Position: Software Engineer

- Work Experience:**
- Migration of FoxPro Services to Windows Services with Microsoft .NET, using C#, VB .NET, LinQ and Crystal Report.
 - Migration of FoxPro Procedures to Stored Procedures in SQL Server and Oracle DB.

2015-10 – 2016-05 Manager Software S.A.

Position: Software Engineer

- Work Experience:**
- Migration of FoxPro Procedures to Stored Procedures in SQL Server.

2014-06 – 2015-08 Componente Serviex S.A.

Position: Full-Stack Developer

- Work Experience:**
- Front End dynamic web applications development with Microsoft .NET using MVC pattern, ASP.NET Razor, C# and VB.NET.
 - Back End SOAP Web Services development with Microsoft .NET, using C# and VB.NET.
 - Stored Procedures, Triggers, and Views development in Microsoft SQL Server.

Professional Education

2013 – 2017 Computer Science Engineer
Santo Tomás Professional Institute. Santiago, Chile.

Languages

- **English**
Level 2 with 715 points scored (Level C1 in current TOEFL language test) according to TOEIC (Test of English for International Communication) realized by CORFO Corporation in 2007.
- **Spanish**
Native speaker.