

Tomas Villarreal

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EXPERIENCE

PSI - UNC

Software Engineer

March 2023 – Present

- Managed and secured the university's SSO server by adding multi-factor authentication, rate limiting, and upgrading to newer, safer versions, reducing potential security incidents by 40%.
- Developed and maintained student management systems used by over 100,000 students, using Vue.js (Vuex, Vue Router) with a Node.js, Express, and MongoDB backend.
- Implemented CI/CD pipelines to streamline deployment and improve reliability.
- Refactored and optimized legacy code, reducing response times by up to 20%.

Freelance

Software Engineer

December 2024 – Present

- Built and deployed custom web applications for international clients across multiple time zones, maintaining clear communication and timely delivery.
- Designed end-to-end solutions using FastAPI, Next.js, and MongoDB, focusing on performance, scalability, and maintainability.
- Integrated APIs, authentication systems, and cloud services to support production-grade applications.

TECHNICAL SKILLS

- Programming Languages: JavaScript, TypeScript, Python, Java, C#
- Frameworks & Libraries: React, Redux, Vue, Next.js, FastAPI, Node.js, Express
- Technologies: REST APIs, SAML, Docker, Git, PostgreSQL, MongoDB, SQL, HTML, CSS, Sass, Bootstrap, Tailwind CSS
- Development Tools: VS Code, Jira, Trello, Virtual Machines, Linux
- Methodologies: Scrum, Agile, CI/CD

PROJECTS

CienciaConecta - Thesis: *SPA for Science & Technology Fair, Province of Córdoba.*

- Developed and designed frontend with RBAC including session and user management
- Collected and refined project requirements through meetings with government clients
- Translated requirements into user stories in Jira to drive development
- Deployed frontend and backend on Netlify and AWS, ensuring availability and reliability
- Built a full-stack web application for managing provincial science and technology fairs, supporting multiple user roles and workflows

EDUCATION

Universidad Tecnológica Nacional - Facultad Regional Córdoba

March 2019 - December 2023

Bachelor of Software Engineering

- Graduated 1st in class with a GPA of 9.55/10.
- Awarded the "Ing. Isidoro Marín" Prize (2024) by the *National Academy of Engineering of Argentina* for exceptional academic performance among engineering graduates nationwide.

Languages

- **Spanish:** Native
- **English:** C2 (EF SET)