

# PATRICIO FREDES

Full Stack Software Developer | React · Node.js · AWS

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## PROFESSIONAL SUMMARY

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Full Stack Software Developer with 3+ years of experience building and modernizing production web applications for corporate clients. Specialized in React, Next.js, TypeScript, and Node.js, with solid experience deploying AWS infrastructure (S3, CloudFront, Lambda, API Gateway, Cognito) and automating CI/CD pipelines. Led technology migrations and frontend architecture decisions with a focus on clean code, performance, and scalability. Complement core stack with Python for automation, scraping, and data processing.

## TECHNICAL STACK

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**Languages:** JavaScript (ES6+), TypeScript, Python, PHP, SQL, HTML5, CSS3

**Frontend:** React, Next.js, Redux, TailwindCSS, i18next, Webpack, Module Federation

**Backend:** Node.js, Express, REST APIs, PHP (Kohana), Flask

**Cloud & DevOps:** AWS (S3, CloudFront, Lambda, API Gateway, Cognito, DynamoDB), CI/CD, Vercel, Docker

**Data & Automation:** Python (scraping, ETL), BeautifulSoup, Requests, Pandas, data normalization

**Databases:** PostgreSQL, MySQL, DynamoDB

**Testing & Quality:** Pytest, Jest, Code Reviews, Clean Code, TDD

**Methodologies:** Agile/Scrum, Git/GitHub, Scalable Architecture, Microfrontends

## PROFESSIONAL EXPERIENCE

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### Full Stack Software Developer

Dec 2022 – Dec 2025

*Anguita Osorio*

*Las Condes, Chile*

- Led migration of the corporate website from React to Next.js, defining architecture, rendering strategy (SSR/SSG), and project structure, reducing page load times by ~40%.
- Designed and implemented AWS serverless infrastructure (S3 + CloudFront + Lambda + API Gateway + Cognito) for 3 production apps, achieving high availability and granular cache control.
- Configured CI/CD pipelines that automated 100% of deployments, eliminating manual errors and cutting delivery time from hours to minutes.
- Modernized multiple frontend applications by adopting TypeScript and clean-code patterns, improving maintainability and reducing production bugs.
- Acted as direct technical counterpart with internal client Gurbana, translating business requirements into architecture decisions and technical solutions.
- Maintained and evolved legacy PHP (Kohana) backend systems, integrating new APIs while ensuring operational continuity of critical production systems.
- Participated in strategic technical decisions alongside leadership, defining development standards and team technology direction.

### Junior Software Developer

Aug 2022 – Nov 2022

*Juan Carlos Stephens Customs Agency*

*Valparaíso, Chile*

- Developed internal tools in JavaScript and PHP used across multiple operational platforms, optimizing workflows and reducing manual work for the team.

- Designed and optimized SQL queries on relational databases, improving response times on operational reports.
- Applied development best practices prioritizing code reliability and maintainability.

### Software Developer Trainee

Nov 2021 – Feb 2022

*Dual Vision Cognitive*

*Santiago, Chile*

- Built full-stack applications with Python (Flask) and React, contributing to real projects in a collaborative agile environment.
- Implemented backend and frontend features, integrating REST APIs with a focus on best practices.
- Gained hands-on experience in web architecture, professional development cycles, and distributed teamwork.

## FEATURED PROJECTS

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### Extend Technical Assessment — *Legislative data scraping and normalization*

- Built a Python scraping pipeline for the Chilean Chamber of Deputies, with normalization and deduplication of legislative records.
- Implemented a 73-test Pytest suite applying BRD-first methodology and a one-file-at-a-time approach, achieving high coverage and robustness.
- Stack: Python, Requests, Beautiful Soup, Pytest, modular architecture and full technical documentation.

### ChatFlow — *Real-time messaging app*

- Full-stack real-time messaging app with AWS Cognito authentication, WebSockets (Socket.io), and DynamoDB persistence.
- Stack: React, Node.js, AWS (Cognito, DynamoDB, API Gateway), Socket.io, deployed on Vercel.

### Enterprise Dashboard — *Microfrontend architecture*

- Corporate dashboard built with microfrontend architecture using Webpack 5 Module Federation, React, and TypeScript.
- Scalable design allowing multiple teams to develop independent modules deployed separately on AWS.

### Crypto Table App — *Crypto market visualization*

- Web app consuming the CoinGecko API to visualize cryptocurrency market data with filters and multi-language support.
- Stack: React 18, TailwindCSS, i18next, CoinGecko API, deployed on Vercel.

## EDUCATION

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### Computer Engineering (Ongoing)

Mar 2023 – Present

*Duoc UC, Viña del Mar, Chile*

### Associate Degree in Computer Science

Mar 2020 – Apr 2022

*Universidad Técnica Federico Santa María, Valparaíso, Chile*

## LANGUAGES

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Spanish: Native • English: Intermediate (advanced technical reading, fluent written communication)