

David E. Martínez

Senior Software Engineer



About

📍 Buenos Aires, Argentina
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Expertise Areas

Application Development
Cross-Platform Development
Utility Development
Library Development
Web Development
Web Performance
Web Crawling
Web Scraping
Codebase Migration
Microservices
RESTful APIs
Chrome Extensions API
Database Management
System Administration
Networking
Virtualization
Blockchain Integration
Crypto Wallets
Web3 & DeFi

Languages & Protocols

TypeScript JavaScript C
Bash HTML CSS JSON
YAML XML TCP UDP
RTMP SSH WebSocket
HTTP HTTPS

Platforms

Windows Linux Unix
MacOS

Summary

Senior software engineer with 8+ years of experience in application and web development. Skilled in JavaScript, TypeScript, Node.js, React, and infrastructure administration.

Proven track record designing, developing, and maintaining desktop apps, backend services, web frontends, and blockchain integrations.

Passionate about elegant solutions and continuous improvement.

Experience

Freelance / Open Source

03/2019 - Present

Computer Programmer

Library Development Cross-Platform Development Application Development
Web Crawling Chrome Extensions API NW.js TypeScript Solid PouchDB YouTube API
FFmpeg Xel

· Developed NW.ts-Tools, a toolkit for NW.js apps.

· Created Twitter Spaces Recorder, a desktop app for capturing Twitter Spaces and streaming to YouTube, Twitch, and more.

· Built Bigfloat, a library for arbitrary precision decimal floating point arithmetic using JavaScript's bigint.

· Developed use-pouchdb-collection, a React hook for real-time/offline-first apps using PouchDB and CouchDB replication.

Oxitesa

04/2025 - Present

Application Developer

TypeScript React Native OpenMaps Mapbox Expo Router TanStack Query

Developed a React Native application. Implemented map features using OpenMaps and Mapbox. Managed server state with TanStack Query. Used Expo Router for navigation and routing.

Blocksize

08/2021 - 02/2022

Senior Software Engineer

Application Development Cross-Platform Development Node.js React TypeScript
Electron Firebase Mobx D3.js DeFi Crypto Wallets Data Visualization
Blockchain Integration

Maintained and improved a multi-cryptocurrency wallet and P2P exchange in Electron. Integrated smart contract support for Ethereum and Binance Smart Chain.

Pinny App

05/2020 - 11/2020

Application Developer

JavaScript Node.js React Native MongoDB Redis Open API Microservices

Built a React Native app, maintained Node.js microservices, and developed a React.js back office.

Blocksize

05/2019 - 02/2020

Senior Software Engineer

Application Development Cross-Platform Development Node.js React TypeScript
Electron Firebase Mobx D3.js DeFi Crypto Wallets Data Visualization

Maintained and enhanced a real-time multi-cryptocurrency wallet and P2P exchange. Added technical analysis charts with D3.js.

True North

11/2018 - 05/2019

Sr. Software Engineer

Application Development JavaScript Node.js Apigee Auth0 PostgreSQL Open API

Techniques & Paradigms

Algorithms

Distributed Computing

Procedural Programming

Functional Programming

Asynchronous
Programming

Eventual Programming

Reactive Programming

Reverse Engineering

Data Structures

Data Visualization

Runtime Environments

Node.js NW.js Deno

Electron Web Browsers

Databases

MongoDB Redis

CouchDB IndexedDB

Firebase SQLite

Frameworks & Libraries

Express React

React Native Solid

PouchDB Xel Mobx

JSDoc Swagger

Open API Socket.io

Other Tools

Git VSCode DevTools

Debuggers Nginx Vite

ESLint Clang-format

Prettier SSH Tmux

AWS Google Cloud ZFS

FFmpeg

Languages

Spanish (Native Speaker)

English (Proficient)

Microservices

Maintained Node.js microservices and developed a proof of concept integrating Auth0 and Apigee.

HUMBER

03/2018 - 11/2018

Sr. Software Engineer and System Administrator

Application Development JavaScript Node.js React Express Swagger MongoDB

Redis Socket.io Angularjs AWS Nginx System Administration Data Visualization

Distributed Computing

Refactored backend to Node.js/Express. Built chat applet with Socket.io. Optimized geo-tracking with Redis, reducing DB size by 98%. Set up MongoDB replica set and replaced Angularjs back office with React.

Droguería Farmasun

12/2017 - 08/2018

Web Developer

JavaScript Node.js MongoDB Express Angularjs Swagger Redis

Maintained Angularjs back office and Node.js backend.

CIOM

06/2017 - 11/2017

Web Developer

JavaScript Node.js Swagger MongoDB Redis

Refactored Node.js codebase and built React front-end views.

EducaciónIT

04/2017 - 10/2017

Computer Science Teacher

JavaScript Node.js MongoDB ES6 Concurrent Programming RESTful APIs Swagger

Socket.io

Taught backend web development, database management, concurrency, async programming, and RESTful APIs.

Ninety.io

04/2017 - 06/2017

Software Engineer

JavaScript Node.js Dialogflow AWS Twilio Slack Redis

Developed Node.js webhook for Dialogflow chatbot integrated with Twilio and Slack.

TuSegurodeViaje.NET

08/2016 - 02/2017

Web Developer

JavaScript Node.js MongoDB Express Microsoft SQL Server Angularjs Swagger Redis

Migrated backend from MS SQL Server to MongoDB. Replaced ASP.NET backend with Node.js/Swagger. Built Angularjs back office.

Open Source Projects

NW.ts-Tools

· <https://www.npmjs.com/package/nwts-tools>

10/2022 - Present

Utility Development NW.js TypeScript Application Packaging

Bigfloat

· <https://www.npmjs.com/package/bigfloat-esnext>

03/2019 - Present

Library Development TypeScript Node.js Deno Web Browsers

use-pouchdb-collection

· <https://www.npmjs.com/package/use-pouchdb-collection>

04/2022 - Present

Library Development TypeScript PouchDB CouchDB React Hook

Education

Fundación Proydesa

01/2016 - 06/2017

Cisco Certified Network Associate (CCNA) LAN/WAN Telecommunications & Administration

EducaciónIT

12/2016 - 03/2017

Node.js & MongoDB, ReactJS, Advanced Node.js Architecture

