

David E. Martínez

Computer Programmer



About

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Programming Languages

TypeScript JavaScript C
HTML CSS

Runtime Environments

Node.js NW.js Deno
Electron Firefox
Webkit-based Browsers
Chromium-based Browsers

Databases

MongoDB Redis
CouchDB IndexedDB
Firebase SQLite
PostgreSQL

Frameworks & Libraries

Express React Solid
PouchDB Xel BigFloat
React Native Gatsby
JSDoc Open API Mobx
Material UI

Tools

Git VS Code
Browser DevTools
IDE Debuggers Nginx
Module Bundlers Babel
ESLint Clang-format
Prettier Unix

Summary

Self-taught programmer with a lifelong passion for technology. I learned to program in C at the age of 12 and have since developed a diverse skill set that includes expertise in JavaScript, TypeScript, Node.js, React, Solid.js, Electron, NW.js, AWS, MongoDB, Redis, and PouchDB. I have experience developing and maintaining microservices, building reactive applications, and releasing multiple open-source projects. With over 6 years of experience in JavaScript and 5 years of experience in Node.js and TypeScript, I am adept at troubleshooting and problem-solving and have proven my ability to design and maintain computer programs and backend systems. Seeking a challenging role where I can apply my skills and continue to grow as a programmer.

Experience

Computer Programmer

TypeScript NW.js PouchDB CouchDB Solid Xel

Working on a couple of commercial closed-source applications based on the NW.js runtime, the Solid reactive JavaScript UI library and PouchDB.

02/2022 - Present

Blocksize

Computer Programmer

TypeScript Node.js React Electron Firebase Mobx cryptocurrency Ethereum

- Maintaining and improving a multi-cryptocurrency wallet with an integrated P2P exchange order book, which was a realtime Electron application made with React, Typescript, Firebase and Mobx.
- Writing code to interact with smart contracts on the Ethereum blockchain and/or the Binance Smart Chain.

08/2021 - 02/2022

Pinny App

Computer Programmer

JavaScript Node.js React React Native

- Developed a React Native application.
- Maintained Node.js microservices.
- Developed a React.js back office application.

05/2020 - 11/2020

Blocksize

Computer Programmer

Node.js React TypeScript Electron Firebase Mobx D3.js Cryptocurrency

- Maintained and improved a multi-cryptocurrency wallet with an integrated P2P exchange order book. The application was a real-time Electron application built with React, TypeScript, Firebase, and Mobx.
- Implemented a technical analysis chart for the order book using D3.js.

05/2019 - 02/2020

True North

Sr. Software Engineer

JavaScript Node.js Apigee Auth0 PostgreSQL

- Maintained multiple microservices written in Node.js.
- Conducted research and developed proof of concept for integrating Auth0 and Apigee with the application.

11/2018 - 05/2019

HUMBER

Computer Programmer

JavaScript Node.js React Express Swagger MongoDB Redis Socket.io Angularjs
Amazon Web Services Nginx

- Maintained and improved a Loopback backend, eventually replacing it with a newly programmed Node.js backend made with Express and Swagger.
- Developed a customer service chat applet using Socket.io to improve communication between staff and clients.
- Improved performance by replacing a questionable MongoDB geotracking workflow with a Redis geospatial cache, reducing the DB size from 30GB to 450MB,

03/2018 - 11/2018

Languages

Spanish (Native Speaker)

English (Bilingual)

Italian (Basic)

thus making it far more viable to have daily backups and proper clustering. That single collection abused of many unnecessary indexes to make it work, with the side effect of very frequently bursting into peaks of CPU and RAM usage that froze the entire EC2 VM instance.

- Set up a MongoDB replica set for redundancy and uptime. The offending collection was no more, but even if it was, with this the DB wouldn't be able to crash the rest of the system in the future.
- Replaced a slow Angularjs back office application with a new one written in React from scratch.

Droguería Farmasun

12/2017 - 08/2018

Computer Programmer

JavaScript Node.js MongoDB Express Angularjs Swagger Redis

Worked as a Computer Programmer at Farmasun, where I was responsible for the maintenance of the company's Angularjs back office application and Node.js backend.

CIOM

06/2017 - 11/2017

Computer Programmer

JavaScript Node.js MongoDB Redis

- Refactored the Node.js backend of the company's system.
- Created server endpoints for various functions.
- Developed frontend views using React.

EducaciónIT

04/2017 - 10/2017

Computer Science Teacher

JavaScript Node.js MongoDB ES6 Concurrent Programming RESTful Web Services

Swagger Socket.io

- Taught courses on backend web development and database management using Node.js and MongoDB.
- Covered topics such as Socket.IO, ES6, concurrent programming, and RESTful web services.
- Introduced students to open-API (Swagger) and RESTful services.
 - Led discussions on asynchronous programming.

Ninety.io

04/2017 - 06/2017

Computer Programmer

JavaScript Node.js Dialogflow Amazon Web Services Twilio Slack Redis

- Developed a Node.js webhook that integrated a Dialogflow natural language chatbot into the platform, allowing users to manage their company's teams via Twilio SMS and Slack as an alternative to the web dashboard.
- Utilized Redis and AWS to support the chatbot's functionality.
- Worked with artificial intelligence techniques to improve the chatbot's language processing capabilities.

TuSegurodeViaje.NET

08/2016 - 02/2017

Computer Programmer

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

- Development of scripts to automate database migration from Microsoft SQL Server to MongoDB.
- Creation of a Node.js server (using Express.js) with a public API documented by a Swagger specification to replace the old ASP.NET backend.
- Implementation of an Angularjs back office application.

Appen

07/2016 - 08/2016

Social Media Annotator - Facebook SRT

Social Media Content Moderation Machine Learning Search Engine Optimization

- Review and evaluate social media content.
- Annotate and categorize content according to guidelines.
- Provide feedback to improve content relevance and accuracy.
- Understand how social media platforms display content.

Appen

02/2016 - 08/2016

Freelance Translator

Translation Machine Learning

- Translate a variety of written materials from one language to another.
- Ensure translations are accurate and idiomatic.
- Proofread and edit translations for quality.
- Stay up to date with translation techniques and technologies.

Lionbridge

04/2012 - 10/2012

Internet Assesor

Search Engine Optimization Machine Learning Search Engine Results

- Evaluating the quality and relevance of online search results.
- Using a set of guidelines to determine whether websites and other online content meet certain quality standards.
- Providing feedback and recommendations to improve the relevance and accuracy of search results.
- Working with a variety of search engines, such as Google, Bing, and Yahoo.
- Understanding how search engines rank and display search results.

Projects

NW.ts-Tools · <https://www.npmjs.com/package/nwts-tools> 10/2022 - 10/2022
 NW.js TypeScript Code Protection Application Packaging

A toolkit for running, compiling, patching, and packaging NW.js apps. Features include the ability to replace the FFmpeg library originally included with NW.js, download a fresh copy of NW.js and package it alongside a built application, and compile JavaScript files into .bin files for source code protection. Also includes typed exports from Node.js built-in modules.

Quorum Space Recorder 02/2022 - 02/2022
 NW.js TypeScript Solid PouchDB Twitter Twitter Spaces YouTube Twitch
 Live Streaming

Desktop application that allows to simultaneously capture Twitter Spaces conversations and save them to disk or broadcast them as live streams to YouTube, Twitch and other services.

Bigfloat · <https://www.npmjs.com/package/bigfloat-esnext> 03/2019 - 03/2019
 JavaScript TypeScript Bigfloat Bigint Decimal Arbitrary Precision

A library for arbitrary precision decimal floating point arithmetic, allowing exact representation of all decimal fractions. This implementation is built using ES native bigints and offers a functional style approach with a set of functions, a BigFloat class with an API similar to Decimal.js, and an evaluate() function for parsing and resolving expressions. Bigfloat is useful for improving the precision of arithmetic operations in applications where precise decimal representation is important.

Bigfloat for Deno · <https://github.com/davidmartinez10/bigfloat-deno> 10/2019 - 10/2019
 Deno JavaScript TypeScript Bigfloat Bigint Decimal Arbitrary Precision

Deno port of the Bigfloat library.

use-pouchdb-collection · <https://www.npmjs.com/package/use-pouchdb-collection> 04/2022 - 04/2022
 React PouchDB CouchDB React Hook Reactive Programming

Developed a React hook that automatically subscribes to changes in a PouchDB collection and triggers re-renders, making it suitable for real-time or offline-first applications utilizing the CouchDB replication protocol.

Education

Fundación Proydesa 01/2016 - 06/2017
 Cisco Certified Network Associate (CCNA) · LAN/WAN Telecommunications & Administration

EducaciónIT 12/2016 - 02/2017
 Node.js & MongoDB

EducaciónIT 01/2017 - 03/2017
 ReactJS

EducaciónIT 01/2017 - 03/2017
 Advanced Node.js Architecture