



Mark Tellez

Sr. Software Engineer & AI Engineer

<https://marktellez.com/>

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Builder & Engineer

I build solar and bio-gas systems, and I raise animals and grow crops off grid.

AI Programming Champion - CodinGame Fantastic Bits

Ranked #8 out of 5,000 participants worldwide

Developed an advanced AI agent using reinforcement learning techniques

Leaderboard: <https://www.codingame.com/multiplayer/bot-programming/fantastic-bits/leaderboard>

Skills

Programming Languages

JavaScript, Python, Ruby, TypeScript, C#

Web Development

ASP.NET, CSS, Django, NextJS, ReactJS, NodeJS, TailwindCSS, Ruby on Rails, SEO, Jest

Databases

MongoDB, MySQL, PostgreSQL, Vector Databases

Machine Learning & AI

CNNs, GANs, Machine Learning, Supervised Learning, Transformers, Pytorch, Scikit-learn

Reinforcement Learning, Large Language Models, Model Distillation, Transfer Learning, Agentic Systems

Cloud & DevOps

Apache, NGINX, AWS Cloud Services, AWS Lambda, AWS S3, Docker, Linux, Serverless Development

Systems Scaling, Bash Scripting

Audio/Speech Technologies

ElevenLabs, Voice Synthesis, Automatic Speech Recognition, Sound Synthesis, Audio Mixing

Creative Tools

Photoshop, Figma, Unity, Blender, Ableton Live

Education

To see my education history, visit <https://marktellez.com/education>

- it's an interesting read. I promise! 😊

Work Experience

VoxBird AI (2025 - 2025)

AI Voice Synthesis Lead

- Developed ensemble AI models for ultra-realistic voice synthesis
- Created voice preservation technology beyond simple cloning
- Built systems capturing natural breaths, pauses and speaking cadence
- Implemented voice model training pipeline with 24-48 hour turnaround
- Supported both English and Spanish voice generation
- Designed memorial voice preservation service for deceased loved ones
- Created technology that outperformed ElevenLabs for personalized voices

Zooly AI (2024 - 2025)

Sr. Web Developer & Voice Synthesis Lead

- Led voice synthesis team replicating celebrity voices (Snoop Dogg, 50 Cent, Cardi B, etc.)
- Created "AI or Not?" testing system with feedback loop
- Developed custom tuning system for ElevenLabs integration
- Implemented parameter optimization algorithms
- Built custom post-processing filters
- Used React/JavaScript/TailwindCSS/AWS stack

DevmentorLive (2020 - 2022)

Founder & Consultant

- Built biogas system and solar-powered AI Box with RTX 4090s
- Developed medical AI models outperforming 2018-2019 research papers
- Created Text-To-Speech model with GANs/Transformers
- Balanced tech work with rural farming lifestyle
- ReactJS/TypeScript/NextJS/TailwindCSS/MongoDB expertise
- Trained game-playing AI agents
- Maintained mentorship relationships from Codementor

ReactU YouTube (2016 - 2020)

Content Creator & Educator

- 33,000 subscribers with \$7k monthly revenue
- Created educational content on JavaScript/React ecosystem
- Pioneered technical education from Mexico City
- Developed effective teaching methodologies
- Transitioned to machine learning/artificial intelligence

Uber (2015 - 2016)

PostgreSQL Expert (Contract)

- PostgreSQL to MongoDB/MySQL migration
- Developed database transition pipelines

- Ensured data integrity during migrations
- ReactJS career pivot after contract
- Bridged sailing sabbatical and tech return

Codementor (2014 - 2020)

Senior Developer & Mentor

- Earned nearly 500 five-star reviews from clients worldwide
- Helped thousands of developers with Ruby on Rails, ReactJS, and JavaScript
- Developed a reputation for exceeding client expectations
- Gained deep insights into consulting business management
- Transitioned to entrepreneurship with DevmentorLive
- Worked with diverse clients across industries and technical backgrounds

Various Startups (2006 - 2012)

Ruby on Rails Developer

- Built multiple e-commerce platforms
- Developed WoW-competitive community system
- Lived intense startup lifestyle in SF/LA
- Mastered Ruby on Rails capabilities
- Learned business/marketing essentials
- Work-hard-play-hard lifestyle balance

GEICO (2005 - 2005)

Backend Software Engineer (Contract)

- Developed SOAP interfaces for COBOL/DB2 systems
- Created Ruby automation scripts for interface development
- Worked with legacy database systems
- Trained off shore replacements during transition
- Maintained systems during off shoring process

YouTube (2005 - 2006)

Web Developer (Contract)

- Developed YouTube's original comment system
- Worked with PERL and Ruby during explosive growth
- Adapted open source Bulletin Board systems
- Learned scaling principles from senior engineers
- Pivoted career focus to Ruby development

Callaway Golf (2004 - 2005)

ASP.NET Developer

- Maintained MySQL database systems for the e-commerce platform
- Developed stored procedures to efficiently manage the large product catalog
- Optimized complex queries for inventory management and order processing
- Built ASP.NET components for the online store's shopping experience

- Integrated merchant account services for secure payment processing
- Developed backend services to manage the extensive product catalog
- Introduced to Ruby/LISP by Jim Weirich
- Pivoted to Ruby on Rails development

UpperDeck (2003 - 2005)

Software Engineer

- Maintained PostgreSQL systems for Marvel Vs platform
- Developed complex SQL queries/stored procedures
- Optimized database performance through indexing
- Built interactive UI with JavaScript/CSS
- Implemented drag-and-drop card management
- Created cutting-edge responsive layouts

X (2003 - 2003)

Software Engineer (Contract)

- Developed pre-PayPal payment system with PERL
- Worked 60+ hour weeks in high-intensity environment
- Experienced Elon Musk's leadership influence
- Learned about project ephemerality in tech
- Developed extreme work ethic standards

Intel (2001 - 2003)

Jr. Software Engineer

- Pioneered sports streaming for NHL/NBA
- Led C++ COM+ to C# .NET migration
- Developed edge streaming media components
- Implemented content caching strategies
- Published 4 technical articles with WroxPress

Client Reviews

I've used Mark a couple times. He is awesome! I've been using Rails, etc for 7+ years but I still get hung up once in a while...Mark knows his \$h!. I won't search for mentors anymore...I'll just use Mark.

- **Adam Stockland**

I've known about Mark for a while through his React courses, I reached out to him to help me start architecting an app I am building as a side project. He was awesome! I got answers to a lot of the areas of this project that I was unfamiliar with and we planned out a way to get the project going. Really looking forward to continuing to work with him.

- **Thomas Anderson**

Mark has a wealth of knowledge and expertise that is hard to find. Perfect mentor in many ways: clear and concise communication, reliable and a great teacher. I highly recommend working with him if you need help.

- **Jelena Grimshaw**

Wow, Mark has really proved himself to be an expert in many ways. Definitely worth the investment and here's why: Pros: He works really fast, gave me some really helpful tips, explained me everything through meaningful examples and even improved some parts of already existing code in a way which makes them more clean and usable. Cons: I only wish the session was longer as I am looking forward to another one :)

- **Daniel Star**

Mark is so good at JavaScript and React (and Redux). He immediately knows how to address the task at hand and then starts throwing down code. I really appreciate his positive attitude and the time he takes to walk me through the work.

- **Ashley**

Mark has been helping us daily with my website for about a week now and I would confidently recommend him to any peer looking for someone who is a fast developer, strong communicator and honest worker.

- **Jack Bordner**

Mark completed a project for us within a short amount of time. His code was excellent and he always confirmed we understood his work for the handoff.

- **Jeff Carroll**

See all my testimonials at: <https://marktellez.com/testimonials>