

Tajddin (TJ) Maghni

(702) 720-4378 | tj@tjcoder.com

Background

Webby Award-winning technologist and engineering leader with over a decade of experience developing innovative, user-centric digital products and platforms. Recognized for creating engaging user experiences featured in Vogue, Cosmopolitan, The Huffington Post, App Store, and Google Play. Proven ability to lead and scale engineering teams, architect complex systems, and deliver impactful solutions used by millions globally. Expertise spans web and mobile development, embedded systems, machine learning, in addition to leading diverse, cross-functional teams.

Experience

Lead AI Engineer & Consultant | TJ Coder | Las Vegas, NV | Sep 2023 - Present

- Engineered and deployed multiple LLM agents using Google Gemini and OpenAI GPT-4/5 for a drug recovery center, automating SMS-based patient Q&A and insurance qualification.
- Architected a CLI-based orchestration agent in TypeScript to streamline code and system administration, utilizing a sub-agent architecture for advanced task delegation, classification, and context pruning.
- Implemented advanced model adaptation techniques, including Retrieval-Augmented Generation (RAG) and Q&A pair fine-tuning, and developed custom tool integrations for terminal, repository, and web lookup functions.

Senior Lead Software Engineer | Self Portrait Project | New York, NY | Aug 2022-Aug 2023

- Conceptualized, designed, and engineered a global network of Raspberry Pi-powered embedded photo booth kiosks.
- Managed all aspects of the project, from hardware and software development to deployment and maintenance.
- Achieved widespread adoption, with over 40,000 users capturing over 4 million photos globally.

Chief Technology Officer | FluentKey | San Francisco Bay Area | Jan 2018 - Aug 2022

- Lead a team of 30+ engineers, linguists, and educators in the development of a groundbreaking language learning platform used by nearly 500,000 students and teachers.
- Oversaw architecture, design, and development of interactive learning technology, resulting in integration into the core curriculum of New York and New Jersey school districts.
- Drove company growth and product expansion, supporting five languages: French, Spanish, Chinese, English, and German.

Lead Developer | We Are Famous | Greater Los Angeles Area | Jan 2016 - Jan 2018

- Led the design and development of custom digital solutions for a high-profile client roster, including Liv Tyler, Rashida Jones, Maxim, Liquid-Plumr, MTV, VH1, Tool of North America, and Amazon Prime.
- Developed a PR-intensive, vision-based machine learning project for Havaianas, showcasing expertise in cutting-edge technologies.

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Creative Technologist | Inqix | San Luis Obispo, CA | Jan 2014 - Jan 2016

- Partnered with Creative, UX, and Account teams to develop award-winning digital products and platforms for clients such as JetBlue, American Express, Stoli, Veuve Clicquot, and William Grant & Sons.
- Prototyped, built, and launched innovative marketing solutions that drove increased user engagement and brand awareness.

Expertise

- **Programming Languages:** Typescript, JavaScript (ES6+), Swift, Python, PHP, ActionScript 3.0, C++, HTML5, CSS3
- **Frameworks/Libraries:** React, Node.js, Expo, Next.js, Elements, NativeBase, React Navigation, Mongoose, Reanimated, UIKit, SwiftUI, Core Data, AVFoundation, MapKit, WordPress, jQuery
- **Databases:** AWS RDS, MongoDB, PostgreSQL, MySQL, Firebase, CouchDB
- **Cloud Platforms:** AWS (EC2, S3, Lambda, RDS), Microsoft Azure (VMs, MariaDB), Azure AI Foundry, Google Vertex AI, Linode (Compute Instances, Managed Databases)
- **Tools/Technologies:**
 - **AI/ML:** LLM Agents, Google Gemini, OpenAI GPT-4/5, Retrieval-Augmented Generation (RAG), Model Fine-Tuning, Computer Vision, Machine Learning
 - **General:** Raspberry Pi, Embedded Systems, Telnyx, WSL, Git, Docker, REST APIs
- **Other:** Agile Development, Project Management, Team Leadership, Cross-functional Collaboration

Education

CalPoly | San Luis Obispo, CA | Computer Science
Cuesta College | San Luis Obispo, CA | General Education
International Bachelorette | Deland, FL | High School

Awards & Recognition

2019 Webby Award Winner: Best Popup Shop - The Marvelous Mrs. Maisel
Featured in: Vogue, Cosmopolitan, The Huffington Post, App Store, Google Play