Ramin Firoozye

Technical Executive, R&D, and Builder

SUMMARY

Innovation, R&D Engineering, new product development, and management. Especially interested in work on connected device technologies.

⊙ : **Berkeley, California, United States**

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Experience 💼

Jun 2024 – *present*

Founder, Technical CEO at 50Labs Inc.

SUMMARY

Founder and Technical CEO of 50Labs Inc., a company building a next-generation AI-based gaming platform.

- Patented AI-based gaming platform
- Browser-based AI interactions
- MCP-based game management
- MCP-based live system monitoring
- Mobile hardware support (iBeacon, NFC)

Jun 2025 – *present*

Co-Founder, Senior Partner at Afterware

SUMMARY

Co-Founder and Senior Technical Partner, using AI to maintain legacy-based systems.

- AI-based system maintenance, testing, and deployment
- MCP-based interaction with live, running containerized application and application instance
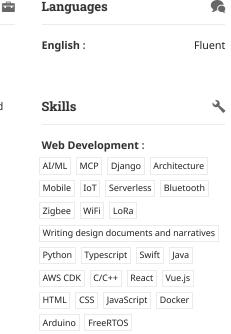- AI-based system maintenance, testing, and deployment

Mar 2023 – May 2024

Manager, IoT Systems at Pansonic R&D

SUMMARY

Manager, IoT Systems, Panasonic R&D

- Proposed new products in Eldercare, Healthcare, Moblie, and AI-based Home Assistance
- Filed 9 patents
- Managed development and release of Panasonic's IoT platform
- Hardware / firmware / software integration
- Managed IoT, Mobile, and Cloud teams

Languages 💬

English : Fluent

Skills 🔧

Web Development :

AI/ML   MCP   Django   Architecture

Mobile   IoT   Serverless   Bluetooth

Zigbee   WiFi   LoRa

Writing design documents and narratives

Python   Typescript   Swift   Java

AWS CDK   C/C++   React   Vue.js

HTML   CSS   JavaScript   Docker

Arduino   FreeRTOS

Jan 2019 – Feb 2023

Senior R&D Architect at Amazon Web Services

SUMMARY

Technical Lead at AWS R&D and Envision Engineering Teams.

- Projects incorporated IoT at large scale, cloud-based robotics, AR/VR, Graph Databases, voice recognition, text to speech, native mobile development, and use of the full range of AWS cloud-based services.
- Created and lead development of SimpleIOT, a patented serverless platform for creating secure, private, IOT devices. Released as open-source project in 2022.
- Piloted with a number of large industrial customers. Features included end-to-end security, firmware SDKs, MQTT, data anlytics, and integration with AWS AI/ML services.
- Demonstrated support for Augmented Reality real-time integration.
- Technologies used included: AWS CDK, Python, Typescript, React, Lambda, DynamoDB, RDS, API Gateway, Cognito, Timestream, Grafana, S3, Cloudfront, Amazon Location, Arduino/C++, and Docker.
- Customers included: John Deere, Scientific Games/Light and Wonder, Emerson, Discount Tire, Nike, and Fortive. Many more under NDA.

Apr 2018 – Jan 2019

Senior Engineer at Amazon Lab126

SUMMARY

Member of Wireless technical team

- Worked on a variety of consumer-oriented connected devices including Alexa, FireTV, Fire Tablets, smart home, remote control products, and appliances.
- Technologies included Bluetooth, Zigbee, and Wifi firmware, system architecture, and scalable cloud infrastructure.
- Designed and shipped embedded wireless metric SDK. Integrated into all Alexa, FireTV, and Kindle devices from 2018 forward. Created custom Kibana dashboards for global monitoring of device performance at-scale.
- Deep-dive 'Cause of Error' analysis on product line that unblocked production. Helped implement solution. Device shipped on-time. Estimated sale of 100M+ units.

Jan 2017 – Apr 2018

CTO/Co-founder at Fluid Hardware

SUMMARY

Secure Firmware Update on the cloud

- Designed and developed an automated, secure over-the-air firmware update system. Support for ARM processor and update via BLE and WiFi. Also included mobile SDKs for iOS and Android.
- Developed SaaS cloud back-end using Python/Django, REST-APIs, and Docker. Responsive web dashboard using Vue.js

Jan 2008 – Jan 2017
Technology Consultant at RF Consulting

SUMMARY

Technology consulting services for companies ranging from startups to multi-nationals

- New Product Development
- Mobile : native apps for iOS and Android.
- Front-end: Responsive web apps using HTML, Javascript, CSS, and Flash.
- Back-end: Python/Django, REST, and Docker.
- Firmware: Bluetooth, BLE, WiFi, and LoRa. Arduino, FreeRTOS on ST, Nordic, TI, and Arduino devices.
- Clients included: Apple, AutoDesk, Earthlink, Ericsson, IBM, Intel, NASA, OneWheel, Oracle, Orange, Procter & Gamble, PG&E, Rockwell Collins, Sony, Taligent, and Toyota.

Education 🏛

BA in Software Development, English Literature, and Philosophy/Logic. from Pacific Lutheran University, Tacoma, WA

Awards 🏆

Feb 2025
11 Patents Awarded and Pending

SUMMARY

Awarded: Hierarchical Universal Device Identifier (AWS). Pending: 50 Labs Inc: AI-based Gaming Platform. Panasonic: 9 patents filed (AI, IoT, User Experience, Healthcare, and more).

Jan 2010
AutoPark: MacWorld Best of Show

SUMMARY

Mobile App Development. Simultaneously featured on iOS AppStore front page and several national magazines.

Jan 2019
IoT TFC Member

SUMMARY

AWS Technical Experts Forum.

Dec 2021
AWS Future Manager Program

SUMMARY

Management Training program.