

EXPERIENCE

Aircards | remote – Lead WebXR Architect

MAY 2021 - PRESENT | aircards.co

Key Contributor to Growth: Joined as one of the first engineering hires, advanced through roles starting as WebXR Developer, then promoted to Senior WebXR Architect, culminating in the current position as Lead WebXR Architect, reflecting exceptional performance, communication and leadership skills, operating directly under the CTO and communicating directly with clients.

Innovative Development: Spearheaded the full stack web development and architecture of cutting-edge AI, AR and VR marketing experiences for top-tier clients like Louis Vuitton, Diageo, Deloitte, LUSH, and Unilever. Developed complex 3D animations, and immersive experiences with WebGL, Three.js, A-Frame & 8thWall.

Technical Leadership: Independently developed and maintained GitHub template projects leveraging Webpack, Vite, React (Next.js), and Vue 3 (Nuxt 3), significantly enhancing source control and code review processes; established and maintained comprehensive full-stack, cross-platform development environments with Docker.

Team Building and Management: Led and motivated multinational teams across up to ten concurrent web application projects, optimizing development by eliminating obstacles, providing expert guidance, and crafting robust backend infrastructures; conducted technical interviews, crafted interview questions, and fostered a collaborative environment.

Client-Centric Integrations: Engineered bespoke solutions including OAuth authentication protocols, WebRTC live streams, Peer2Peer multiplayer games, as well as CRM and eCommerce integrations; managed deployments to meet precise client specifications including managing load balancing concerns, and navigating client infrastructures.

Onno | Boulder, Colorado – Freelance Developer and Digital Marketer

FEBRUARY 2019 - DECEMBER 2020 | onno.com

Web Development: Revitalized the brand's online presence by maintaining and enhancing their WordPress site with WooCommerce integration. Implemented features and redesigned pages to optimize user experience and interaction.

Digital Marketing: Developed social media marketing campaigns on Facebook and Instagram, significantly increasing brand visibility and customer engagement. Collaborated with freelance cinematographers to produce compelling marketing material / ad creative.

Resonate | Berlin, Germany – Catalog Manager & Software Engineer

MARCH 2018 - DECEMBER 2019 | resonate.coop

Engineering Pioneer: Joined as one of the first engineering hires, playing a crucial role in establishing the technological foundation of the platform.

Automation and Encoding: Developed Python scripts to automate catalog ingestion and streamline the encoding process for lossless music files, enhancing operational efficiency. Contributed to the javascript development of in-browser music-streaming frontend.

API and Database Design: Actively participated in critical discussions around API and database design, contributing to the robust and scalable architecture of the platform and the management of its music catalog and digital rights management (DRM).

Industry Advocacy and Expertise: Represented Resonate as an expert witness at the Humboldt Institute of Internet and Culture in Berlin. Presented insights on leveraging blockchain technology for DRM and intellectual property protection to a panel of industry experts from YouTube, EU governments, and DRM organizations.

SKILLS

Programming Languages:

Primary: JavaScript, TypeScript, Python

Secondary: C#, PHP

Scripting and Query: Bash, GraphQL, SQL

Web Development:

Frontend: HTML, CSS, SCSS, React.js, Next.js, Vue.js, Nuxt.js, Svelte

WebGL / XR: Three.js, A-Frame, 8thWall, Snap Camera-Kit, Immersal SDK

Animation and UI: GSAP, Framer-Motion

Backend and Server-Side:

Frameworks: Express.js, Wordpress, Lambda, Peer.js, WebRTC, Web Sockets

Server Management: NGINX, Apache, Docker, PM2

Database ORMs: Mikro-Orm, Sequelize, Mongoose

Build Tools and DevOps:

Bundlers and Compilers: Webpack, Vite, Rollup

Code Quality: ESLint, Prettier

Cloud Platforms and Services: Digital Ocean, Vercel, AWS Amplify, AWS EC2/ECS, AWS Lambda, AWS S3, AWS CDK and CodePipeline.

Project Management & Documentation:

Jira, Asana, Trello, Confluence

Operating Systems:

MacOS, Windows 10+, WSL2, ArchLinux, RHELinux, Ubuntu

Databases:

MySQL, PostgreSQL, MongoDB, DynamoDB

Multimedia Design:

Graphic and UX Design: Adobe Photoshop, Illustrator, Figma

3D Modeling: Blender

Audio Production: Ableton Live, Reaper, Protools

EDUCATION

Dartmouth College

Digital Music, Computer Science

Duration: 2014-2015

Location: Hanover, NH

Note: Transferred

Tisch School of the Arts – NYU – BFA in Recorded Music with Honors

Music Business, Audio Engineering, Multimedia production, Computer Science

Duration: 2015-2018