

# Robert Dale Smith

## Senior Full-Stack Web & Embedded Systems Engineer

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## SUMMARY

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Full-stack web and embedded systems engineer with 10+ years spanning web, firmware, robotics, and custom hardware. Proven track record shipping end-to-end products. From multimillion-user web tools at Sumo and billion-message systems at Pushnami to open-source retro gaming hardware (JoypadOS) and real-time wearable robotics systems at Eidon. Equally strong across TypeScript/React/Node.js, Embedded C/C++, CAD, and PCB design.

## EXPERIENCE

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### Eidon AI — Founding Engineer (Full-Stack & Embodied AI)

Jul 2024 – Present

Launched a cross-platform PWA to 10k+ users collecting 1TB+ of multimodal AI data. Designed wearable robotics hardware: IMU-based arm tracker (shipped 50 beta kits), POV glasses prototype, BLE HID exoskeleton glove. Built iOS/Android capture apps and web visualization suite. Developed quaternion→joint-angle math.

### Controller Adapter — Founder (Embedded Engineer)

Jul 2022 – Jul 2024

Designed and shipped thousands of retro gaming adapters; grew brand to 10k+ followers. Created JoypadOS open-source firmware. Reverse-engineered rare controller protocols (e.g., VM Labs NUON). Designed PCBs, CAD enclosures, and production workflows.

### Pushnami — Staff Software Engineer

Feb 2020 – Jul 2022

Maintained systems delivering 10B+ push notifications/month. Built Pushnami's email/SMS collection, editor, and full sending pipeline, enabling new revenue channels. Led e-commerce integrations (Shopify, Miva, WordPress).

### AppSumo / Sumo — Senior Software Engineer

Aug 2015 – Jul 2019

Built tools used on 500k+ websites; created a custom rich-text email editor; scaled systems that collected and sent millions of emails daily; helped drive ARR from \$1M→\$5M. Platform later acquired.

### Bouncing Pixel — Web Developer

Aug 2013 – Jul 2015

Delivered custom web apps, CMS platforms, and interactive experiences for clients such as BP, Cottonelle, and the Children's Museum of Houston. Built with Unity, C#, JavaScript, PHP, NW.js, Node.js, Dust.js, and MongoDB.

### Mote Labs — Founder

Mar 2012 – Jul 2013

Created Chromemote (30k+ DAU), a Chrome extension Google TV remote demonstrating early "cast-to-TV" UX that foreshadowed Chromecast. Selected for Microsoft Imagine Cup Accelerator; won \$5k innovation award.

## EDUCATION

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### University of Houston — Computer Science, Minor in Mathematics

Jan 2010 – Dec 2013

Undergraduate Research & RED Labs Startup Accelerator. Advanced CS/Math coursework toward B.S.

## SKILLS

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**Web:** Next.js, React, Angular, Node.js, GraphQL, SQL & NoSQL

**Embedded:** ESP-IDF, nRF Connect SDK, Zephyr, RP2040/Pico, AVR; BLE & USB HID

**Languages:** TypeScript/JavaScript, C/C++, Python

**Hardware:** KiCad, PCB design, Fusion 360, 3D printing

**Mobile:** Flutter, Swift (working proficiency)

**Cloud:** AWS, GCP, Firebase, Vercel, Heroku, Railway

**Specialties:** Full-stack web, HCI, real-time data pipelines, embedded systems, and reverse engineering