

Robert Dale Smith

FULL STACK SOFTWARE ENGINEER

linkedin.com/in/RobertDaleSmith
github.com/RobertDaleSmith
robert@robertdalesmith.com
713-998-2698
Austin, Texas

Creative technologist dedicated to building products from concept through execution, spanning digital and physical realms—from front-end to back-end, down to the bare-metal. I focus on creating products I would actually use myself, collaborating with inspiring teams to pursue a shared vision.

TECHNICAL KNOWLEDGE

Programming Languages: TypeScript, JavaScript, C / C++, PHP, Python, Java, C#, Go
Database Systems: MySQL, PostgreSQL, MongoDB, GraphQL, Dynamo, TimeScale, ElasticSearch, Redis
Web Frameworks: HTML 5 / CSS 3, jQuery, Node.js, React, Next.js, Tailwind, Angular, Polymer
Embedded: Arduino, Raspberry Pi Pico, AVR Assembly, Embedded C, CircuitPython

EDUCATION

Computer Science, BS (on hold)

University of Houston 2010 - 2013

- Class 1 of RED Labs Startup Accelerator
- Corporate Entrepreneurship Certificate

Mathematics, AA

San Jacinto College 2004 - 2007

- NASA Columbia Crew Memorial Scholarship
- National Science Foundation CSEMS Scholarship

EMPLOYMENT AND ENTREPRENEURSHIP

Founder, Embedded Software Engineer

Controller Adapter

08/2021 – present

Austin, Texas

Developed open-source hardware and firmware, growing it into a thriving e-commerce business with a five-figure MRR. Reverse-engineered legacy communication protocols with minimal documentation. Designed and manufactured custom printed circuit boards with 3D-printable enclosures for half a dozen different products.

Assembly - C/C++ - Python - AVR - ARM

Staff Software Engineer

Pushnami

03/2020 – 07/2022

Austin, Texas

Managed and expanded systems handling billions of push notifications monthly. Led the development of e-commerce integrations for Shopify, Miva, and WordPress. Designed internal tools for AI-driven ad optimization.

TypeScript - Angular - Node.js - MongoDB - AWS

Founder, Full Stack Developer

Techsbox

05/2019 – 02/2020

Austin, Texas

Built a comprehensive SaaS platform from scratch, featuring a unique ticketing system to streamline daily operations for computer repair service business owners, managing technicians and jobs more efficiently.

TypeScript - React - Node.js - PostgreSQL - Railway

Software Engineer II

Sumo Group (AppSumo.com/Sumo.com)

08/2015 – 04/2019

Austin, Texas

Early engineer, played a key role in transforming Sumo from basic email collection to a robust email service provider, developing essential features such as a rich text email editor, Shopify app, and WordPress plugin.

TypeScript - React - Node.js - MySQL - AWS

Lead Developer Bouncing Pixel	08/2013 – 07/2015 Houston, Texas
Managed all web application development, collaborating closely with clients to turn their visions into tangible products, and worked alongside developers and designers to build customized solutions for clients. <i>JavaScript - PHP - Polymer - Node.js - MongoDB - Heroku</i>	
Founder, Full Stack Developer Mote Labs	11/2011 – 08/2013 Pasadena, Texas
Scaled a smart TV remote browser extension to 30k daily active users; the precursor to Chromecast. Pitched a Google-based product to Microsoft and selected as 1 of 15 teams for Imagine Cup Startup Accelerator 2013. <i>JavaScript - Node.js - Chrome Extensions</i>	
Research Assistant University of Houston	08/2010 – 05/2011 Houston, Texas
Undergraduate research experience at the Quantitative Imaging Lab, developing experiments to test various methods of background subtraction from live video. <i>C/C++ - OpenCV - QT</i>	
Founding Technician / Developer Digital Crisis Inc.	09/2009 – 08/2010 Houston, Texas
Designed and implemented a website in conjunction with a door-to-door marketing campaign, which increased new customer acquisition tenfold. Trained new hires and managed day-to-day operations. <i>JavaScript - PHP - MySQL - Apache</i>	
Lead Technician Friendly Computers #178	08/2007 – 09/2009 Webster, Texas
Established the top-grossing location of the country's largest franchised computer repair shop. Developed standard operating procedures and a unique workbench that quadrupled each technician's output. <i>PC/Mac Repair - Laptop Repair - Data Recovery</i>	
Programming Tutor San Jacinto College	08/2006 – 05/2007 Pasadena, Texas
Held regular office hours to mentor and tutor computer science students preparing for transfer. Provided hands-on support to help students learn basic programming logic. <i>Visual Basic .NET - C# - C++</i>	
Computer Technician SERTEC Computer Electronics	01/2002 – 12/2003 Pasadena, Texas
Provided comprehensive support for residential and business customers' computer and IT needs, both in-shop and onsite. Serviced a wide range of electronics including PCs, monitors, printers, and game consoles. <i>Customer Service - Computer Repair - Networking</i>	