

Daniel Shamany

Embedded + Full Stack Software Engineer

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Summary

I build things — hardware, firmware, and software — at the intersection of embedded systems and product thinking. With a background in Business Management, I approach entrepreneurship with both technical depth and commercial clarity. Outside of work, I spend time on philosophy and political theory: not as a field of study, but as a lens for thinking about power, institutions, and the world we're building.

Work Experience

Stealth Mode Startup Company, Stockholm, Sweden 2025-05 - 2026-01

CTO/Co-Founder

- Modularized library with Core SDKs to ensure consistent coding practices
 - Prototyped and researched solutions for RAG implementation
 - Setup a custom RAG pipeline with Ollama, ChromaDB and Node.js
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Clean Initiative, Pasadena, CA, USA 2025-01 - 2025-07

CTO/Business Development

- I will be developing a new online sales platform for solar and roofing.
 - Currently training an A.I. to assist our sales process.
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Strada Media, Inc, North Hollywood, CA, USA 2024-08 - 2025-01

Back End Rust Engineer

- Worked on an A.I. Search platform for professional media editors
 - Implemented Stripe payments in Rust / Axum/ React.js / Next.js
 - Developed a CLI tool to manage product/price changes
 - Developed GraphQL and RESTful APIs
 - Prototyped React components that utilize Apollo GraphQL and Next.js for data consumption
 - Used PostgreSQL, NATS, and other microservices when implementing key features on the platform
 - Implemented transcription generation with Whisper
 - Utilized AWS Bedrock for implementation of transcription summaries
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Caliber Alpha, Santa Monica, CA, USA 2023-12 - 2024-08

Full Stack Engineer

- Created an A.I. chatbot for a customer service department which reduces their workload by 20-30%.
 - Developed a chat feature to reduce incoming calls to customer service by almost 50%.
 - Added CLI tools for monitoring deployments of microservices as part of a migration from several monoliths which enabled a cost reduction of at least
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RentButter, Chicago, Illinois, USA 2023-07 - 2023-09

Back End Engineer

- Implemented third-party APIs to dashboard using Ruby on Rails and PostgreSQL
 - Added ability for ID scanning with Microblink
 - Facilitated S3 APIs for uploading documents
 - Added accompanying widgets to the React.js client web application for tenant screening
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QuayChain, Los Angeles, CA, USA 2021-01 - 2023-03

Full Stack Cloud Engineer

- Collected real-time sensor data from IoT edge devices via custom device code
 - Wrote device code library in Python for sensor data uploads
 - Used AWS Lambda with Python and API Gateway to create RESTful APIs
 - Stored sensor data in DynamoDB and S3 with SQS to categorize data with ML pipeline
 - Handled notifications in SES
 - Secured AWS infrastructure with IAM provisions, JWT tokens, and encryption
 - Built a React.js client in TypeScript to facilitate "Search" for containers, chassis, and trucks
 - Utilized Docker, App Runner, ECR and ECS to deploy client and lambdas
 - Used CloudFormation to structure the AWS cloud infrastructure
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Stealth Mode Startup Company, Los Angeles, CA, USA 2021-02 - 2022-01

CTO/Founder

- Developed recruiting and hiring strategies to attract senior engineers
 - Worked with product designer and founders on PRD for the MVP
 - Coordinated a team of five engineers to develop hardware, software and documentation
 - Designed APIs to capture device data from wearable arduino devices running on STM32
 - Utilized Docker, Python and FastAPI for MVP backend
 - Developed the first iteration of the Admin client web app in React.js
 - Experimented with multiple iterations of the device code in C++ and Rust
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CaliberAlpha, Santa Monica, CA, USA 2019-01 - 2021-01

Founder/Full Stack Software Engineer

- Worked on a wide range of consulting projects with focus on Mobile, Web, and Cloud apps
- Developed APIs in Next.js and Angular for a food delivery platform
- Designed websites for marketing carbonated drinks, medical equipment, and dating apps
- Worked with startups on MVPs using MongoDB, Express.js, React.js, and Node.js (MERN)
- Helped develop a streamlined process to deploy applications on AWS, GCP, and Azure
- Utilized Docker and Kubernetes for on-site deployments per clients' requests
- Developed internal tools using Python and FastAPI for managing projects
- Implemented Stripe and Plaid in multiple finance-related projects
- Supported multiple projects for Clean Initiative

Clean Initiative, Santa Monica, CA, USA

2017-03 - 2019-01

CTO/Full Stack Engineer

- Developed strategies to streamline hiring process and company presentation
- Designed hiring infrastructure with Google Workspaces to improve employee collaboration
- Improved communication within the company with Slack and internal mobile apps
- Created multiple SPA's to facilitate sales dashboards
- Created mobile application in React Native to track canvassing statistics
- Utilized AWS EC2, S3, API Gateway, SQS, SES, and RDS to store sales data
- Categorized data from field employees for use with a sales pipeline
- Automated sales pipeline data to present management with company health reports
- Designed and developed employee badges with NFC to access company tools remotely
- Developed an MVP for an inhouse mobile canvassing app in React Native

Clean Initiative, Santa Monica, CA, USA

2017-01 - 2017-03

Program Facilitator

- Hired as employee number 5
- Conducted door-to-door canvassing and lead generation
- Learned about construction, the electric grid and solar panels
- Studied multiple programs provided to homeowners that facilitate no cost solar installation
- Shadowed program facilitator to document agreement procedures
- 25% above average lead generation

Uber, Santa Monica, CA, USA

2016-04 - 2016-12

Growth Account Manager

- Assisted in on-boarding new drivers to the platform
- Consistently accomplished top 10 conversion rating
- Developed automation scripts to assist in documenting phone calls with drivers
- Built an MVP for remote safety inspection in Swift UIKit and SQLite3 on my spare time

Education

Stockholm Institute of Technology

2025-09 - 2027-08

Certificate

Embedded Systems Engineering

General Assembly

2019-11 - 2020-01

Certificate

Full Stack Engineer

California State University, Northridge

2012-08 - 2015-05

Bachelor of Science

Bachelor of Science - BS, Business Management

Santa Monica College

2010-01 - 2012-04

Associate of Science

Associate of Science - AS, Business Administration and Management,

Skills

Programming Languages: Rust, Python, JavaScript/TypeScript, C/C++

Frameworks: Axum, FastAPI, Node.js, Ruby on Rails, Express.js, React.js, ReactNative, Apollo GraphQL, PostgreSQL, MongoDB, DynamoDB, SurrealDB

Integration: GraphQL, REST, Websockets, gRPC, Stripe, Plaid, Microblink

Cloud & Devops: AWS (EC2, S3, API Gateway, SQS, SES, RDS, Bedrock, AppRunner, ECR, ECS, IAM, Cloudformation), Docker, Podman, Linux

AI/ML & Emerging Technologies RAG (Retrieval-Augmented Generation), Ollama, ChromaDB, AWS Bedrock, Whisper (transcription), IoT Edge Devices, Blockchain

Embedded Systems: Arduino, STM32, ESP32, FreeRTOS, Sensor Data Collection

Business & Leadership: Startup Founding Experience, CTO/Technical Leadership, Business Development