Jereme **Corrado**

SOFTWARE & SYSTEMS ARCHITECTURE · ENGINEERING LEADERSHIP

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01 About Me

I'm an engineer and technology leader with experience delivering technical products and shaping company strategy across both greenfield development and growth-phase expansion. My expertise spans software and systems architecture, backend service development, platform engineering, networking, and foundational infrastructure.

My approach to leadership combines strategic oversight with substantial hands-on work. I engage in proof-of-concept development, unblock teams with targeted contributions, and promote collaborative design discussions. This approach maintains architectural clarity while meeting project timelines.

I have built high-performing teams from the ground up through recruitment and mentorship, achieving over 90% voluntary retention. My leadership extends to large-scale software and infrastructure initiatives, guiding product launches and scaling infrastructure for efficient growth.

Beyond software and systems architecture, I have led complex infrastructure projects, including five data center builds and numerous cloud and hybrid deployments, as well as initiatives in machine learning, robotics, mobile app development, and regulatory compliance.

02 Relevant Experience

Mobot (YC W19) New York, NY

QA-as-a-Service platform leveraging robotic automation to test mobile software on real devices. First FTE, built and scaled engineering team from 0 to 15, and supported securing $18M across two post-seed rounds.

CTO *May 2023–Jul 2024*

- Led the launch of Mobot Live, introducing a third customer vertical that enabled users to execute workloads directly on our fleet of mechanical robots.
- Designed and co-implemented a distributed TLS decoding proxy providing Chrome DevTools-like network traces for hardware test devices.
- Built a dynamic VPN service providing per-test case egress routing via 14 global gateways.
- Developed a WebRTC-based service enabling operators to observe their robots, including a video source daemon, feed locator service, and SFUs.
- Created comprehensive test-device log collection and reporting systems.
- Developed an ML-based image comparator, boosting throughput by 14%.
- Built and deployed a machine room hosting 125 robots with supporting servers, networking, and infrastructure.
- Actively contributed to Clojure, Python, Terraform, and Ansible codebases, maintaining a cadence of weekly PRs merged over my five-year tenure.

VP of Engineering *Jul 2019–May 2023*

- Designed system architecture and core data models.
- Led the design and implementation of low-level backend services (e.g., service discovery, locking) and APIs.
- Bootstrapped the Engineering org: language and tool selection, infrastructure components, and SDLC processes.
- Designed and co-implemented robot control systems and the initial desktop control app.
- Developed a hybrid multi-cloud and on-premises topology, codified with Terraform and Ansible.
- Managed implementation of our test device calibration app, for iOS and Android.
- Developed computer vision tools for high-volume image processing.
- Implemented reporting and visualization pipelines on Airflow.
- Led three iterations of the robotics platform, advancing from off-the-shelf components to custom PCBs and industrial motion controllers..

Birchbox New York, NY

A pioneering monthly subscription box that helped define the model. As the fourth engineering hire and the first with an infrastructure focus, I scaled technical operations across six countries and integrated two acquisitions, supporting growth to peak annual revenue of $181M.

VP of Technical Operations   *Apr 2016–Jul 2019*

- Executed third NYC data center build, tripling machine footprint.
- Built database servers optimized for specific IO workloads using FusionIO then NVMe, and RAID to support rapid growth.
- Collaborated on operationalizing Gurobi for monthly box assortment execution.
- Developed an OSPF-based system for discovering and migrating containerized services on physical hosts, prior to Kubernetes.
- Transitioned dev environments to containers, simplifying the development process.
- Managed BGP peering and transit relationships at NYC IX.
- Collaborated on designing and implementing SMB file storage for video team assets.
- Led initial effort to achieve PCI DSS Level 2 compliance.
- Developed mission-critical office cold brew cask monitoring service.

Director of Technical Operations & Systems Architect   *Jun 2011–Mar 2016*

- Hired the initial team of five.
- Scaled Birchbox infra to support growth from thousands of subscribers to millions, across six countries, with peak daily sales exceeding $1M USD.
- Executed two NYC data center builds, at two locations.
- Collaborated on transitioning software architecture from a monolithic PHP application to a suite of smaller Ruby on Rails APIs.
- Designed load balancing, request routing, and caching solutions at Layers 2, 3, 4, and 7.
- Deployed Juniper and bare-metal Layer 2 and Layer 3 solutions.
- Managed an IT team supporting end users and overseeing multiple office and retail store buildouts.
- Implemented an Asterisk PBX for internal extensions and a customer-facing call center.

Meetup New York, NY

Platform enabling communities to connect and engage in person. Scaled infrastructure to support rapid growth, including a second data center build-out, enhancing fault tolerance as membership rose from 8 million toward 25 million.

Senior Systems Engineer   *Mar 2010–Jun 2011*

- Engineered and supported a fully bare-metal environment.
- Collaborated on the architecture and implementation of a second data center.
- Managed Hadoop HDFS and HBase clusters for the new Feeds product.
- Collaborated on the design and deployment of a KVM-based VM staging environment.
- Supported a large MySQL (Percona) environment.
- Developed an extensive Chef codebase.

The Electric Sheep Company New York, NY

An early innovator in virtual worlds and immersive experiences. Developed interactive environments for major media clients and brands, advancing engagement in virtual spaces.

Systems Engineer   *Jun 2006–Mar 2010*

- Co-developed search index ETL pipeline for a next-gen Second Life e-commerce site, later acquired by Linden Lab.
- Built out the company's first data center.
- Designed, implemented, and managed internal network services and customer-facing applications.

Zoion Systems New York, NY

Owner & Consultant   *Feb 2003–Mar 2010*

Independent consulting on Linux networks and small web applications using mod_perl2.

Restorative Management Middletown, NY

Software Engineer & System Administrator   *Mar 2000–Jun 2006*

Linux and UNIX administration, web application development, and network support for a healthcare organization.

DRJ Computing Albany, NY

Consultant   *Jul 1997–Feb 2000*

Novell, Windows, and Linux IT support for small businesses, including network installations and system troubleshooting.

03 Special Projects

gold and a $PAGER *Jul 2018–Jul 2019*

- Immersed myself in learning Clojure, eventually joining the core team of the open source Clojure project, Yetibot.
- Started a blog, "gold and a $PAGER," where I wrote several technical articles, now on Medium.
- DevOps and TechOps consulting projects for Empatico, Jetty, Simon Data, and Flare HR.
- FOSS contributions include Clojure solutions for Lambda Study Group and Rosetta Code, NVIDIA support for a Dockerized version of SteamOS, and a QMK keymap.

04 Selected Writings

The Docker Networking Model (L1/L2)

A low-level exploration of Docker's Layer 1 and Layer 2 connectivity implementation

Installing a New Release of Debian From a Running System

Somewhere between a traditional OS install and building a root filesystem for a container

Using SCP with CircleCI Build Containers

Operational insights for bridging CircleCI's lack of native SCP functionality to debug CI builds