Jereme Corrado

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My focus is on addressing hard problems with great teams, specializing in platform and infrastructure software, including design, architecture, and hands-on coding.

Experience

Mobot • CTO   May 2023 – Jul 2024

- Architected and co-implemented critical infrastructure projects, including per-test-device egress routing, a bot WebRTC video source daemon, test-device log collection and reporting, and a distributed TLS decoding proxy providing Chrome DevTools-like network traces in customer reports (Clojure, Python).
- Developed ML-based image comparator, increasing throughput by 14% to meet 70% gross margin goal (Python).
- Led the launch of Mobot Live, our largest public-facing product, enabling customers to run workloads directly on our bots.
- Executed rack buildout hosting 125 bots with servers, switches, and routers.
- Active codebase contributor averaging 36 monthly commits to main over my five-year tenure.

Mobot • VP of Engineering   Jul 2019 – May 2023

- Joined as the first full-time hire post-founder's (YC W19) seed funding and helped secure the following two investment rounds.
- Designed system architecture and core data models.
- Bootstrapped the Engineering org: language and tool selection, infrastructure components, and SDLC processes.
- Grew the Engineering team to 15.
- Collaborated on the design and implementation of low-level backend services (e.g., service discovery, locking) and APIs (Clojure).
- Designed and co-implemented robot control systems and the initial desktop control app (Python).
- Managed implementation of our test device calibration app, for iOS and Android.
- Contributed to the design and implementation of computer vision tools, processing ~18 million images to date (Clojure, Python).
- Developed a hybrid multi-cloud and on-premises topology, codified with Terraform and Ansible.
- Implemented reporting and visualization pipelines using SQL, then Airflow (Clojure, Python).

- Managed three iterations of our robotics platform, evolving from off-the-shelf components to custom PCB fabrication and industrial motion controller integration.

gold and a $PAGER Jul 2018 - Jul 2019

During my final year at Birchbox, I was afforded the opportunity to work a reduced schedule which allowed me to dedicate significant time to professional development and consulting.

- Immersed myself in learning Clojure, eventually joining the core team of the open-source Clojure project, Yetibot.
- Started a tech blog, "gold and a $PAGER," and wrote several articles, now archived on Medium.
- DevOps and TechOps consulting projects for Empatico, Jetty, Simon Data, and Flare HR.
- FOSS contributions: Clojure solutions to lambda-study-group and Rosetta Code, NVIDIA support for a Dockerized version of SteamOS, a QMK keymap.

Birchbox • 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.
- Managed BGP peering and transit relationships at NYC IX.
- Transitioned dev environments to containers, simplifying the development process.
- Developed an OSPF-based tool to simplify container migration between physical hosts (Perl).
- 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 (Clojure).

Birchbox • Systems Architect & Dir. of Technical Operations Jun 2011 - Mar 2016

- Hired the initial team of five.
- Executed two NYC data center builds, at two locations.
- Scaled Birchbox infra to support growth from thousands of subscribers to millions, across six countries, with peak daily sales exceeding $1M USD.
- Collaborated on software architecture transition from monolithic PHP to multiple, smaller Rails APIs.
- Designed load balancing, request routing, and caching solutions at layers 2, 3, 4, and 7.
- Deployed JUNOS and bare metal layer 2 and 3 switching solutions.
- Managed IT team supporting users and executing multiple office and retail store buildouts.

- Implemented Asterisk PBX for internal extensions and a customer-facing call center.

Meetup • Senior Systems Engineer   Mar 2010 - Jun 2011
- 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-base VM staging environment.
- Supported a large MySQL (Percona) environment.
- Developed an extensive Chef codebase.

The Electric Sheep Company • Systems Engineer   Jun 2006 to Mar 2010
- Built out the company's first data center in NYC.
- Designed, implemented, and managed internal network services and customer-facing application hosting.
- Collaborated on development of search index ETL pipeline for a next-generation Second Life e-commerce site, later sold to Linden Lab, Second Life's publisher (Perl).

Zoion Systems • Owner   Feb 2003 - Mar 2010
- Small web apps (mod_perl 2 LAMPs).
- Small to medium Linux network buildouts.
- Linux system administration.

RMC • Software Engineer & System Administrator   Mar 2000 - Jun 2006
- Linux and UNIX system administration and networking (LAN and WAN).
- Developed internal web apps, CGI then embedded interpreters, (Perl, TCL/Expect).
- Maintained a few packages for the Debian Project.

DRJ Computing • Consultant   Jul 1997 - Feb 2000
- Provided system and network administration for small businesses, supporting Novell, Windows NT, and Linux.
- Built hundreds of white box PCs and installed miles of CAT5/CAT5e cabling.
- Home PC support - *"I installed a new ISA modem and now my serial mouse is broken."*