

Gabriel Ochoa

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I'm an Engineering Leader versed in ethical AI, product development, human-centered design, distributed systems, IoT devices, and IT infrastructure. I'm passionate about well-informed environments, experiences, technology that impacts the physical world, and tools that help people work better and faster.

Numina

Head of Engineering | Brooklyn, NY | March 2022 - Present

- Reduced time to ship new features from 1-6 months to <1 week.
- Oversaw an volume count accuracy increase of 20-50% per vehicle mode.
- Architected and delivered a new Data Lake, Pipeline, and Landing Zone after a 3x increase in data ingestion in a 3 month period.
- Created a new hiring process to hire 4 engineers in 4-8 weeks instead of 3-6 months.
- Built and hired a team of 5 engineers across 5 disciplines (Hardware, Firmware, Data Science, Machine Learning / Computer Vision, and Frontend/Backend).
- Launched a new analytics dashboard that allowed for faster queries, quicker feature delivery (hours to days instead of weeks), and a better user experience.

Kinoko

Technical Co-Founder | New York, NY | August 2018 - January 2021

- Built a peer to peer video chatting product for our rapidly growing aging population
- Tech stack: WebRTC, Go, Typescript, Postgres, Linux and a Raspberry Pi TV video kiosk

Squarespace | August 2017 - March 2022

Engineering Manager | Infrastructure | New York, NY | January 2020 - March 2022

- Lead 18 engineers across 5 disciplines (Compute, Traffic, Storage, Data Center, Bedrock Services)
- Oversaw and helped architect an 3x increase in efficiency of production machines in our data centers to over 60% utilization
- Managed capacity planning and procurement process for Squarespace data centers and public cloud
- Founding member of the One Platform initiative to make all Squarespace Infrastructure products look and feel the same to our internal customers
- Primary instructor for Incident Commander training and was IC on-call

Engineering Manager | Traffic Infrastructure | New York, NY | October 2018 - December 2020

- Started a new team of 5 to manage, grow, and develop Squarespace's edge infrastructure
- Led performance based rewrite of the core edge load balancer, reduced the time it takes to make a secure connection to Squarespace by 5x and shipping in 8 months from problem identification to 100% rollout
- Helped the team build a charter, values, and operating processes that kept everyone informed while allowing for individual autonomy and working styles
- On-call with 2-min response time SLA for uptime of all Squarespace websites

Senior Site Reliability Engineer (SRE) / Team Lead | New York, NY | August 2017 - October 2018

- Led a team of 7 engineers in launching, getting organization buy-in, and migrating 3000 VMs owned by 15 teams to a new bare metal Kubernetes internal compute platform

- The new platform replaced the software runtime, metrics, alerting, and CI/CD layers of the Squarespace stack
- Designed and built the primary interface for Engineers to deploy code to Production
- Created and led Kubernetes 101 and 102 training courses for 100+ engineers
- Created the SRE Partner program and was SRE Lead for launch of the new billing system

Wink

Site Reliability Engineer | Flextronics | New York, NY | December 2015 - August 2017

- Migrated all applications from Heroku to AWS EC2 based Kubernetes clusters
- Participated in Design Thinking workshops and user story sessions
- Built internal product for creating microservice infrastructure by developers
- Was on-call for and supported 18 micro-services and underlying infrastructure
- Developed and championed SRE culture/practices across engineering organization

Systems Engineer | Quirky Inc | New York, NY | August 2014 - December 2015

- Technical product expert for integration of Amazon Echo, Nest, Schlage Locks, and many ZigBee and Z-Wave products into the Wink platform.
- Designed hardware and processes to refurbish 40,000 company products in 1 month
- Led vendors and manufacturers in Asia through final stages of development and testing of ZigBee, Z-Wave, and Bluetooth embedded devices
- Trained and helped launch a customer service center of 50+ employees

Quirky

BlackOps Design Engineer | New York, NY | January 2014 - August 2014

- Prototyping specialist for CEO's personal four-member design team
- Demonstrated products to executives, retail buyers, and investors
- Constructed visual and functional prototypes for Quirky Aros and Wink Relay

Skills

Proficient

Go | Python | Linux | Networking | DNS | TLS | Kubernetes | Containers | MQTT AWS | GCP | CI / CD Systems | Observability & SLOs | Incident Management

Design thinking | User-centered design | Distributed systems | SRE | Product management

3D Printing | Welding | Soldering | Wood/Metalworking | Machining and Prototyping

Well-versed

Artificial Intelligence | Machine Learning | Computer Vision Ruby | Redis | Etcd | MySQL | Memcached | DynamoDB | Postgres | Zigbee | ZWave

Novice

AutoCAD/Fusion 360 | HSMWorks | Pro-E/Creo | PCD Design

Education

Georgia Institute of Technology | B.S. Mechanical Engineering 2013

Manufacturing Processes | Machine Design | Prototyping | Product Design