Austin Chamberlin

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Senior software engineer with experience designing and deploying distributed systems in e-commerce, mobile networking, and fintech.

I've worked in seed-round startups and large companies, and led technical project teams of up to 6 engineers.

Highlights

- **Scaled Expeto Wireless from seed-funded MVP to 1,000+ daily active SIMs**, extended the platform to meet customer requirements while maintaining product strategy, including meeting the HA and InfoSec requirements of a tier-1 Canadian carrier.
- **Re-oriented The RealReal's item intake workflow around ML-driven predictions**, using visual similarity, OCR, and tuned LLMs. Significant image-based automation now applies to ~90% of items received, and units-per-hour is up ~13% since the project start.

Experience

Senior Software Engineer — The RealReal — Sep 2021 - Present

Overhauled warehouse workflows by integrating ML prediction systems for the description and authentication of The RealReal's luxury consignments. Impact: ~25% of received items fully automated into inventory (up from 0%). ~90% of volume partially automated.

Built a dynamically paced QC sampling system that maintains proportionality across clothing taxons and price tiers, enabling valuable accuracy feedback for the prediction system.

Was the go-to consultant on Datadog app monitoring. Integrated Datadog into the legacy Ruby monolith and associated Elixir services, and established monitoring best-practices in use org-wide.

TypeScript / Ruby / Elixir / Python
Kafka / Redis / PostgreSQL / MySQL / Fastly CDN / AWS / Kubernetes

Senior Software Engineer — Expeto Wireless — Mar 2018 - Sep 2021

First engineering hire; developed core elements of nearly all aspects of Expeto's technical systems.

Built a Cisco Meraki-like interface + routing backend for managing 3G/4G data-only cellular networks, integrating anything with a cellular modem into customers' private networks over both private radio setups and major carrier roaming.

Managed our AWS VPC, set up our nginx-based zero-downtime deployment system, moved our PostgreSQL db to an HA configuration

Streamed remote packet captures to Wireshark to troubleshoot the control and data plane from devices, through radio equipment, to packet exit gateways.

Established network peerings with client technical teams in a variety of environments (AWS, Azure, on-prem VMware).

Set up AWS-hosted GitLab CI

Interviewed and mentored new hires, supporting eng org growth to ~7 engineers.

Spearheaded a shift of the primary dev language from Java to Kotlin.

Kotlin / Java / Clojure / Python / Bash / TypeScript
Docker / PostgreSQL / etcd / IPsec / tcpdump + Wireshark / stunnel / iptables / nginx

Senior Software Engineer — LendUp — Aug 2014 - Oct 2017

Built credit decisioning software (loans and credit cards) in partnership with data scientists, lawyers, and consumer finance professionals.

Delivered software in tightly regulated domains: wrote interest-calculation algorithms, and dynamic generation of adverse action documents.

Designed a cost-optimized data fetching service for the credit underwriting platform.

Built an automated credit-line extension system for the credit card product.

Java / Clojure / JS

Software Engineer — Genesys Telecommunications, via acquisition of SoundBite Inc. — 2012 - 2014

Updated a multi-tenant SMS marketing platform to support scheduled blasts and surveys.

Java / JS

Software Engineer — Financial Industry Regulatory Authority — 2011 - 2012

Updated forms for filing S-1 prospectus to GWT (Java-to-js compiler).

Java

Education

UNIVERSITY OF VIRGINIA — 2006 - 2010

Computer Science, Environmental Science