

Tom Cahill

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Alto Pharmacy

Dec 2017 → Oct 2024

Senior Software Engineer

Over my nearly 7 years at Alto I assumed a variety of roles, starting as a generalist developer working on everything from our patient-facing web and mobile app to our billing system before becoming a founding member of our Platform team and finally joining forces with our Infrastructure and Security teams under the umbrella of DevSecOps.

- Supported the modularization of our monolithic Rails application by developing internal tools that provided a guided migration process
- Led migration of company-wide CI/CD from CircleCI to Github Actions
- Substantially improved security for our patients by leading a migration of authentication in our app to Auth0, introducing features like MFA and bot detection
- Led major version upgrades of our Postgres databases with minimal downtime (on the order of seconds)
- Led overhaul of legacy service interfacing with medication-dispensing robots
- Introduced Kafka support to our Rails applications by building an opinionated library which included useful abstractions for producers and consumers with sane defaults, support for queue semantics, metrics/alerting, and a debugging UI
- Created an extensible API gateway built on top of the Lura framework for handling common concerns such as request retries and observability

Ruby

Rails

Go

Kubernetes

AWS

Terraform

React

LGTM Stack

CI/CD

Service-oriented Architecture

Postgres

Apcera

April 2014 → Dec 2017

Senior Software Engineer

- Contributed to Apcera's container runtime, scheduler and API (eg: introduced affinity and anti-affinity to scheduler)
- Conducted investigation into deploying a cluster across multiple cloud providers (AWS, GCE, OpenStack, vSphere) and provided a prototype implementation.

Go

Distributed Systems

Terraform

Fastcap Systems

May 2013 → April 2014

Engineer I

As the sole software engineer at Fastcap Systems, I developed firmware for embedded dynamics sensor systems and designed a GUI to interface with and acquire data from these systems.

C

Python

Embedded Systems

Education

Tufts University

2009 → 2013

Bachelor of Science, Electrical Engineering

Capstone Project: Designed a system that utilizes optical sensors mounted beneath keys of an acoustic piano to transmit MIDI data (note number and velocity) via USB with sub-millisecond latency.