# Collin Van Dyck

i like computers

[5xx.engineer](https://5xx.engineer) | [collin@5xx.engineer](mailto:collin@5xx.engineer) | 678-755-7366 | Durham, NC

## Experience

2024-2025

Staff Software Engineer at **Cortex.io**

* Helped model and manage generic entity relationships between entities
* Migrated catalog mechanics to support entity relationships
* Prototyped new integrations-related ingestion pipeline using Temporal
* Built cli developer tooling to speed up and automate the development iteration process.
* Successfully promoted the use of language models to help reduce time to remediation for customer issues.

2023-2024

Sr Staff Software Engineer at **Rippling**

* Rust agent rearchitecture
  + Broke out monolith crate into workspace with sub-crates.
  + Created in-memory work scheduler to replace legacy disk-based system.
  + Created patterns for more modular code components and testability.
* Planned and executed on strategy to improve agent reliability, resuling in 25% increase in HA metrics.
* Introduced CLI tooling to remove roadblocks for common troubleshooting and release processes.
* Mentorship of EIC teammates

2022-2023

Principal Software Engineer at **ngrok**

* Created stream processing framework to separate business logic from transport details and ensure at-least-once guarantees.
* Built event infrastructure to power customer events and internal BI analysis.
* Overhauled credential and authorization system.
* Mentored early-in-career teammates.
* Led effort to integrate services with open telemetry and Honeycomb.

2018-2022

Principal Software Engineer at **Segment**

* Maintained ctlstore – Segment’s distributed database / CDN for control data.
* Created and successfully adopted feature flagging system built on ctlstore.
* Maintained event ingest pipeline.
* Built out infrastructure to create and query profile graphs on DynamoDB.

2017-2018

Senior Software Engineer at **Mesosphere**

* Built DC/OS backup/restore coordination service.
* Took ownership of and maintained shared Go library.
* Created SDK-based frameworks for cluster visibility.

2013-2017

Senior Software Engineer at **Librato**

* Developed Cassandra time series database.
* Created and maintained real-time alert dection and notification system.
* Built system to import Cloudwatch metrics into Librato.
* Maintained system to import Heroku log-based metrics into Librato.
* Maintained open source Java/Dropwizard Librato integrations.

2012-2013

Senior Software Engineer at **Boundary**

* Optimized time series streaming system.
* Built out event collection/indexing pipeline using Solr/Postgres.
* Ported erlang services to Dropwizard.
* Built customer-facing daily usage rollup reports.

2011-2012

Software Engineer at **Yammer**

* Worked on distributed search pipeline (Lucene, homegrown index replication)
* Helped maintain distributed message store (BDB-JE)
* Built LDAP synchronization service
* Built streaming data export service

2007-2011

Owner at **Nimble Technique**

* Consulting focused on helping companies with their Ruby/Java/Scala infrastructure.

## Education

B.S of Science in Computer Science Georgia Tech, 1998