

Chris Gaunt

Software Engineer

Christopher Gaunt

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Goal

To find a challenging and exciting software engineering position, for which I can bring nearly a decade of experience and a love of creative problem solving.

Technologies

Some of the more notable tools I've used include:

Programming Languages: Kotlin, Java, Typescript, Python, Perl,

Frameworks: SpringBoot, Nest.Js, Flask, FastAPI, SQLAlchemy, Ktor, Jooq, React, Hibernate, TypeORM

Cloud Stacks: AWS, GCP

Other languages/tools: Bash Scripting, PostgreSQL, MySql, Redis, Jenkins, Github Actions

Experience

Arbor/ Senior Software Engineer

February 2024 - Current

Early engineer, working on a system to broker users to different electricity supply contracts at a better cost, and with climate friendly suppliers

Designed a re-engineering of the full brokerage platform, indexing primarily on maintainability and stability. This involved a holistic reimagining of the architecture and core data models, using service oriented and event based architectures which resulted in a more modular and scalable system, with much more observability.

Two key areas of focus for myself were infrastructure and AI integration. I designed a container based system that ran in GCP's cloud run, controlled with terraform. I set up a load balancing system secured by WAF, with API gateways that routed traffic to our services. I also implemented a utility statement parser that used LLMs to extract data from user's bills. This provided the data needed most to run the brokerage business.

Stack: Typescript, Nest.js, Python, PostgreSQL, GCP Cloud Functions, Firebase, BigQuery, Datadog

Regal.io / Senior Software Engineer

September 2022 - October 2023

Acted as tech lead engineer on a team of 5, developing features on an event-driven VOIP platform that helped sales and customer teams reach their customers.

Designed and implemented key features to help our customers manage calls, complex call routing rules, team management, as well as contributing to overall platform stability.

Worked with junior and mid-level engineers to help with their technical and professional growth.

Stack: Typescript, Nest.js, React, Redis, PostgreSQL, Docker, AWS ECS and CodePipeline

Metromile Enterprise/ Senior Software Engineer

December 2019 - September 2022

Acted as tech lead engineer on a team of 6 to develop a solution for allowing Enterprise Insurance customers to create flexible business workflows with easy integrations

My initial projects included building a deployment manager for lambda's deployed in kubernetes that could integrate into our claims software, as well as maintaining the claims software as it was deployed to the largest insurance company in Japan.

After the initial deployment, I was tasked with replacing the main stack with a more modular, maintainable system, with the key benefit of moving from a deployed per customer system, to a multi-tenant system, capable of handling large enterprise customers. Designed a new services oriented system in Kotlin and SpringBoot, using a BPMN process management engine to handle the creation and use of complex claims flows with integrations with customer's systems.

Stack: Kotlin, Java, Python, SpringBoot, Kubernetes, PostgreSQL, AWS lambda, AWS SQS/SNS

Endurance International / Software Engineer

September 2016 - December 2019

Worked in engineering teams to develop platform features and integrations to allow customers to create websites, register domains, and manage email servers.

Primarily contributed to a Perl codebase running on linux web servers, mostly building and maintaining the billing system which was responsible for processing millions of dollars in transactions per day. This included onboarding, subscription renewals, credit card processing, and tax reconciliation. I also acted as lead on a project to bring the full system into PCI compliance, by implementing a new token based credit card processing system

Toward the end of my stint, I was tasked with our first foray into breaking our monolithic application into micro services, written in Java running in SpringBoot.

We first rebuilt the tax platform and integrated it back into the monolith, and as a result set the patterns the team would be using moving forward, rewriting the system piecemeal making it more maintainable and stable over time.

Stack: Perl, Linux, Java, Docker, Kubernetes, SpringBoot, MySQL

Side Projects

Spirio.ai

2024

Joined a very small company for profit share that wanted to experiment with implementing a RAG system for helping users organize their lives. I created a Flask API in Python that managed user segmented vector stores in a PostgreSQL database that represented their documents and could be added to chat sessions with LLMs as context. It also supported setting up chat sessions with prompts to guide the LLMs in different topics. I set up and managed linux servers with storage mounts to run the API and handle user documents. Didn't take off, but I learned a ton building it.

Garden Planner

2024

Fun little project I did to help my wife and I figure out which plants would be beneficial to plant together, as well as experiment with using graph databases to manage complex relationships. I created a Flask API backed by a Neo4J database, and munged data from a couple of sources.

<https://github.com/cgtopher/companion-planting-api>

Status Tracker

2023

Project I did to experiment with Kotlin's API framework, Ktor. It's an application that manages the status of processes, built primarily to be lightweight to allow for very fast polling and updates, using postgres for managing "tracks" and redis for active processes.

<https://github.com/cgtopher/status-tracker>

Education

Mesa Community College / Music/General Education

August 2008 - May 2010, Mesa, Arizona

Awards

- I have won awards in three hackathons across two companies, for projects in ML and automation.
- I am a proud Eagle Scout