

Anthony Ascencio

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<https://github.com/anthony2025>

Polyglot Software Engineer with a focus on developing highly scalable microservices leveraging functional programming. Proficient in JS full-stack development, Scala backend development, and familiar with DevOps in Linux.

Languages

- Scala 4/5
- Javascript 5/5
- Bash 5/5
- CSS 5/5
- Python 3/5
- Lua 3/5
- C++ 2/5
- Lisp 2/5

Professional Experience

Metal Mecanica Camacho

JANUARY 2024 - JANUARY 2024: FREELANCER WEB DEVELOPER

- Helped the company update three marketing websites using CSS variables to define a custom theme for each one.

47 Degrees (now Xebia Functional)

JANUARY 2021 - AUGUST 2023: SCALA BACKEND CONSULTANT

BANNO AT JACK HENRY

- Leveraged Cats/Cats-Effect, Http4s, and other Typelevel technologies to maintain and optimize a suite of HTTP microservices for the banking domains of alerting, fraud-detection, and customer service scalation.
- Led the migrations of over a hundred microservices to Scala 3 and Cats-Effect 3. Aided Infrastructure during a migration of all our services to Kubernetes.

DATALINE

- Implemented and deployed a HTTP microservice to trigger and monitor recurrent batch jobs. Leveraged Spark 3 on AWS EMR, Http4s through AWS Lambda, and Cats/Cats-Effect to achieve a serverless architecture that could easily be scaled with streaming capabilities.

BTS Software Solutions

JUNE 2019 - AUGUST 2019: INDEPENDENT CONSULTANT

- Worked on the rewrite of a scientific data sharing site running React. Goals were to improve responsiveness across devices, as well as accessibility, internationalization, and ease of use.
- Leveraged Terraform and CloudFormation to maintain all our infrastructure as code, including a CI, compute clusters, and a Serverless AWS Lambda API.

AUGUST 2017 - JUNE 2019: FULL-STACK SOFTWARE ENGINEER

- As part of DARPA's projects THoR and Prometheus, worked on the development of a scientific data server extensively leveraging AWS compute clusters. Collaborated on all fronts of the application: from layout and user experience design, to devops and backend microservices.
- Architected a HR application on Play Framework for calculating revenue forecasts and tracking personnel. Successfully applied functional programming concepts (transducers) in order to halve the time required for risk management calculations.
- Reverse engineered existing graph optimization C++ tooling to conduct experiments on lossless compression schemes for Machine Learning models.

Rose's Daycare LLC

MAY 2017 - JULY 2017: WEB DEVELOPER

[HTTPS://GITHUB.COM/ANTHONY2025/ROSES-DAYCARE](https://github.com/ANTHONY2025/ROSES-DAYCARE)

- Crafted, deployed and maintained a responsive marketing website for Rose's Daycare to help with marketing efforts and client retention. React encapsulated all site elements into reusable components. Redux fetches content and persists it to Local Storage. A NoSQL database serves as a CMS. I used Firebase for hosting the site, database, and some serverless functions to handle the Contact Us page.

Education

Computer Science, Anticipated B.S., forty-eight credit hours completed

Engineering School at the University of Virginia, USA, 2013 - 2015

Full-stack Development

FreeCodeCamp, Remote, 2015 - 2016

Open Source Work

Sundial

[HTTPS://GITHUB.COM/ROZHOK/SUNDIAL](https://github.com/ROZHOK/SUNDIAL)

A Scala scheduler for running dockerized batch computing jobs. Helped in documenting and pushing bug fixes for their deployment pipeline using AWS CloudFormation.

Keysemaphore

[HTTPS://GITHUB.COM/DAVENVERSE/KEYSEMAPHORE](https://github.com/DAVENVERSE/KEYSEMAPHORE)

I contributed upstream to migrate this Cats-Effect project to Scala 3, in order to unblock my team.

Glamorous

[HTTPS://GITHUB.COM/PAYPAL/GLAMOROUS](https://github.com/PAYPAL/GLAMOROUS)

A popular CSS-in-JS library. Aided in the translation efforts of their documentation.