

# Derick A. Gross

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## EXPERIENCE

**Co-Creator, Apex** 1/2020-4/2020 [apex-api-proxy.github.io/](https://apex-api-proxy.github.io/)

Apex is an API proxy for microservices. Designed for small teams that have just begun migrating from a monolith to a microservices architecture, it provides one place to log and control service-to-service traffic. Apex addresses several challenges introduced when services communicate over the network, such as debugging with distributed logs, duplicate logic in client libraries for API management, and defining and managing global and service-to-service configuration.

- Designed solution architecture and created initial design drawings
- Designed middleware to manage fault-handling logic, such as retries, backoff and timeout
- Designed relational database table schema for log storage
- Wrote middleware logic for request/response log storage
- Built admin user interface (React) and API (Node/Express)
- Created Docker images and YAML file for deployment with Docker and Docker Compose
- Integrated Node.js/Express.js solution with TimescaleDB, Redis, and React
- Wrote application docs, including instructions for deploying in AWS Elastic Container Service
- Co-authored comprehensive technical case study

**Instructor Lead - Software Engineering, General Assembly** 3/2019-6/2019

- Instructed students in full-stack software development: principles of OOP, MVC pattern, REST APIs, SQL, database design, Git, algorithms/data structures

**Software Developer, True Earth Health Products** 11/2016-3/2019

- DevOps for cloud-based ETL solutions that updates critical reporting data

## PROJECTS

- Dagpay (February 2019): Track payroll benefits deductions for employees. C# .NET Core web API featuring dependency injection, JWT authentication, Azure SQL database integration.
- WFM-QA: Event-sourced quality assurance (Fall 2018). Built controller routes, request objects and handlers (command pattern), and event applicators for Audit aggregate.
- [SheerScience.com](https://www.sheer-science.com) MVC app (January 2019): Built and tested controllers and views, wrote extension methods, JavaScript and jQuery for form autocomplete and product selection.
- Plexaderm site WPO (February 2018). Decreased mobile site payload from 10.6MB to 1.6MB.

## SKILLS and TECHNOLOGIES

AWS, Azure, Docker, JavaScript/Node.js, .NET Core, Ruby/Rails, PostgreSQL, TimescaleDB, Redis, SSMS, CosmosDB, Git/Github, REST APIs, jQuery, React/Redux, HTML5, CSS3

## EDUCATION

- Launch School mastery-based software development (2016 - 2020)
- Pluralsight C# Path - Skill IQ: Expert (2019)
- Grow with Google/Udacity Mobile Web Specialist Nanodegree graduate (2018)