

Alexander Merola

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TECHNICAL SKILLS

Languages: Go, Python, JavaScript, React, Swift, SwiftUI, HTML, CSS, JSON

Tools and Technologies: REST & gRPC APIs, CI/CD, Git, GitHub Actions, Docker, Kubernetes, AWS, TDD

PROJECTS

Merola Station - Full Stack Model Train Collector App

- Designed and developed a full stack web application, including REST API using Go with a PostgreSQL database and frontend using React. Implemented a CI/CD pipeline using GitHub Actions for automated testing. Used Docker to containerize the application and deployed to AWS using RDS, EC2, EKS

Mom's Recipes - Recipe Storage App (Backend)

- Designed and developed gRPC and REST APIs using Go and PostgreSQL. Implemented a gRPC gateway to convert Restful/JSON requests into gRPC. Ensured secure sessions with Paseto refresh and access tokens. Utilized go-swagger for documentation, Docker for containerization and Github Actions for CI/CD

PROFESSIONAL EXPERIENCE

Livng, Inc. (Pre-Seed Startup)

Feb. 2023 – July 2023

Software Engineer

Saint James, NY

- Collaborated with the CEO to transform their business ideas into a MVP, including a REST API using Go, an iOS app using Swift and SwiftUI, PostgreSQL database, and AWS S3 buckets with pre-signed URLs for images
- Implemented Authorization Code Flow with PKCE to secure the connection between backend and frontend, as well as added the ability for third party sign-in with Sign in With Apple and Sign in With Google
- Created a CI/CD pipeline including automated testing using GitHub Actions
- Eliminated the dependence on a third party provider and associated costs by developing a 3D Building Floor Plan App using Swift, SwiftUI, UIKit, ARKit and Apple's RoomPlan API

Round Lake Charter School

Aug. 2017 – May 2022

Teacher, Middle School Leader, Math Coach Grades 4-8

Mount Dora, FL

- Taught classes in Algebra 1, 6th & 8th Grade Math, Computer Science, and Critical Thinking & Reasoning
- Collaborated with administration and other school leaders to develop and implement policies and procedures for the new Middle School program (opened in 2017), leading a team which grew to 15 teachers
- Developed and oversaw the implementation of a cohesive math program for grades 4-8, aligning instruction to state standards and best mathematical practices, and adopting instructional practices and common vocabulary
- Honored as Teacher of the Year during the 2021-22 school year

Alee Academy Charter School

Aug. 2014 – May 2017

High School Math Teacher

Eustis, FL

EDUCATION

Stony Brook University–SUNY

June 2012 – May 2013

Post-Baccalaureate Work in Mathematics

Stony Brook, NY

Colgate University

May, 2011

BA, Philosophy

Hamilton, NY