

# Teagan Glenn

## Senior Software Engineer

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### SKILLS

Programming Languages	IoT/Automation	DevOps	State Management	Provisioning
Expert	Expert	Expert	Expert	Expert
TypeScript JavaScript Python Java Kotlin C# C/C++ Embedded C VB VBA VB.NET F# Scala Haskell Bash PHP	Z-Wave X10 ZigBee Thread MQTT Home-Assistant OpenHAB ioBroker	Ansible Salt Consol Chef GitLab CI GitHub Actions Jenkins AWX Drone Foreman MaaS ProxMox VMWare	CI/CD Pipelines Docker Kubernetes	Foreman AWX

### WORK EXPERIENCE (4)

Jun 2022 - Jul 2024

Advanced Senior GraphQL Lead Engineer at

<https://resideo.com>

Lead the GraphQL Schema and Feature team, driving philosophical and innovative solutions to challenges presented by Resideo's core platform of professional and consumer connected products.

- Led the design and implementation of innovative schema configurations enhancing communication and functionality across IoT devices.
- Mentored and guided teams in implementing GraphQL best practices.
- Conducted training and workshops to elevate team capabilities in cutting-edge IoT solutions.
- Facilitated the migration of all subgraphs and gateways from NexusJS Apollo Server v2 to NestJS using Apollo Server v4 federation 2.3.
- Implemented patterns of self-validating, self-documenting domain driven data types using GraphQL scalars and type system.

Jan 2021 - May 2022

Senior Delivery Engineer at

<https://wwt.com>

Built an award winning solution validating inventory, connections and health of customer orders racks.

- Increasing rack validation throughput from less than 10 to over 60 daily, while completely removing the possibility of errors.
- Built a framework to discover servers, switches, routers, and storage devices using mDNS, PXE, iPXE, and DHCP that generates detailed validation reports.
- Initiated a weekly self-paced training session to explore concepts, terminology, and processes used in both software and DevOps.
- Created custom Ansible plugins for simplifying complicated task logic, inventory, and logging requirements, reducing support requests to developers from 3 a day to once a week.

Sep 2020 - Dec 2020

Automation Engineer @ Charter Advanced Technologies at

<http://kforce.com>

To demonstrate the feasibility of VR-as-a-Service, developed the infrastructure for deploying the proof-of-concept.

- Pioneered the design of a scalable network architecture for next-generation VR and gaming services.
- Implemented robust automation scripts and tools to enhance the efficiency and reliability of edge device operations in real-time service environments.

May 2019 - Sep 2020

Automation Engineer @ Comcast Applied AI at

<https://turnberrysolutions.com>

Built the tooling and pipelines necessary to deliver better home security through the use of computer vision, audio analysis and anomaly detection.

- Created a prototype using Python 3.7 and Tensorflow 1.12 to demonstrate an algorithm for detecting deliveries of all types.
- Developed tools empowering the research teams to rapidly develop, perform A/B testing, and deploy machine learning models with metrics collection, monitoring, and failover.
- Worked with a small DevOps team to standardize automation, infrastructure, and the Automated Machine Learning Platform stack configuration using Amazon AWS, EKS, IAM, EC2, and more.
- Improved a library, written in GoLang, that integrates with nearly any Pub/Sub system, including Kinesis, Kafka, MQTT, RabbitMQ.

## PROJECTS (2)

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Homebridge Ultimate Govee Plugin

 <https://github.com/constructorfleet/homebridge-ultimate-govee>

Homebridge   Govee   IoT

- Imports device scenes from Govee API.
- Supports granular control of RGBIC light segments.
- Provides full support for Air Purifiers, Aroma Diffusers, RGB lights, and RGBIC lights.

DeepThought - Routing

 <https://github.com/constructorfleet/Deeptthought-Routing>

Express.js   API   Documentation

- Library to ingest SwaggerDoc, ensuring the API and documentation are always synchronized.
- Performs permission checks as configurable middle-ware handler.
- All inputs presented to endpoint handlers are guaranteed the correct type and within specified constraints.
- Ported library to Android for internal, intent-based, routing within an application.

## EDUCATION (3)

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Bachelor Applied Physics at Metropolitan State University

Bachelor Applied Mathematics at Metropolitan State University

Bachelor Computer Science at Metropolitan State University