Carl Jerritt Aquino

Software Engineer

✉ jerritt.aquino@gmail.com   ✎ carljerrittaquino.com   ⌂ cjaquino   📍 Snellville, GA

Profile

I am a software engineer with experience in Javascript, TypeScript, React/Redux, Go, PostgreSQL, MongoDB, AWS, and GCP. I am a co-creator of Pilot, an open-source, multi-cloud framework for provisioning an internal PaaS with a workflow-agnostic build, deploy, and release pipeline.

Experience

Pilot Framework, *Co-Creator, Software Engineer*   May 2021

https://pilotframework.com/ ⌁

Pilot is an open-source, multi-cloud framework for provisioning an internal PaaS with a workflow-agnostic build, deploy, and release pipeline.

Technologies: TypeScript, Go, gRPC, Docker, Terraform, AWS / GCP

- Led the design of how Pilot automates the provisioning of resources to AWS and GCP using Terraform.
- Utilized a custom Docker image that provides the custom plugins needed for multi-cloud deployments.
- Led and designed CLI tool for Pilot setup, configuration, application deployment, SSH access, and teardown.
- Contributed to manual testing of internal PaaS components and lifecycle of deploying applications to ensure expected functionality.
- Co-authored a technical case study documenting our design decisions and challenges.
- Designed diagrams to visually explain Pilot's architecture.

MR Systems, *Applications Engineer*   May 2017 – Sep 2020

- Technical Lead - Led a team in developing two distributed applications that communicate to and store data from devices at different locations
- Designed, developed and deployed Human-Machine Interfaces (HMI) to PLC-based automation and control systems for the water and wastewater industry using industry standard HMI software
- Built an internal library in Python to improve developing features for HMI interfaces.
- Designed and developed automated reporting systems using SQL and Excel to improve plant observability
- Troubleshoot communications in industrial computer networks.

CITI, LLC, *Project Engineer*   Nov 2015 – May 2017

- Designed and developed HMI applications using Wonderware's InTouch or Inductive Automation's Ignition.
- Designed HMI applications that integrate with PLC and third-party vendor systems
- Develop project specific documentation.

Skills

Languages (JavaScript, TypeScript, Ruby, Go, SQL, HTML, CSS),
Frameworks (React/Redux, Express, Node, Handlebars, jQuery),
Technologies (Git/GitHub, Docker, REST APIs, Terraform, Waypoint, PostgreSQL, MongoDB, VMWare),
Cloud (EC2, ECS, ECR, S3, IAM, VPC, ALB, CloudFront, RDS, Compute Engine, Cloud Run, Google Cloud Storage, Container Registry, Cloud CDN, Heroku, Digital Ocean)

Education

B.S. Computer Engineering, *Mercer University*   2010 – 2015