Peter Grasso

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EXPERIENCE

Red Alpha, Columbia MD — *Lead Cloud Engineer*

August 2024 – Present: AWS Partner

- Met with customer technical teams to gather information, requirements, document capabilities, and features which all get incorporated into the final recommendation
- Based on customer needs I tested cloud capabilities, like Kubernetes cloud integrations, to determine what can meet the customer needs
- Created cost estimated based on existing customer infrastructure to offer multiple points of view with direct vs optimized migrations
- Extended the cost estimates to include complete rewrites of systems focusing on serverless methodologies.
- Maintained file storage MVP example for the customer via serverless technologies like lambda with Python deployed via CDK
- Integrated all possible paths to migrate the customer to the cloud in a single deliverable to maximize customer success
- Composed cloud architecture options and evaluated which would be most effective for the customer in terms of migration complexity, speed, infrastructure cost, and capabilities

November 2022 – Present: Lead Cloud Engineer

- Architected, implemented, migrated, verified, and audited multiple system migrations to AWS focused on resiliency, speed, and costs in that order.
- Lead the design of an implementation of a serverless migration leading to a total AWS bill of ~270 USD/mo for production scale 3 environments.
- Designed and implemented a Cloud solution for a cost focused internally managed OpenAi. Overall cost reached an average of $1/hr
- Routinely ran cost audits and improved system maintenance via automating migrations, integrating slack alerts, built system dashboards for non-technical leads, etc…
- Built multiple CI/CD pipelines to automate deployments, migrations, alerts, and cache busting for production systems.
- Built a fully integrated Slack notification system via AWS EventBridge to automated proactive notifications to the development team about potential issues, deployments, and state of the system.
- Designed an AWS authenticated shared terraform modules repo hosted in S3 to provide authenticated access to select groups without the need for any additional configuration.
- Lead multiple system compliance initiatives to meet STIG standards, connect with ACAS scans, meet ATO (authority to operate), and integrate with monitoring solutions such as AlertLogic.

Asymmetrik, Annapolis Junction MD — *Technical Lead*

January 2016 – March 2022

- Architected, executed, and validated contracts for multiple healthcare clients simultaneously as the company's lead healthcare engineer to maintain company relationships

- Upgraded and maintained a highly configurable public facing Find-A-Doc application to drive patient engagement to book more effective appointments within an on-prem scheduling system.
- Migrated a healthcare client to a custom-built HIPAA compliant cloud based infrastructure to house PHI and PII analytics used by their marketing division with 0 downtime.
- Rapidly designed, built, audited, and deployed several COVID vaccine applications to schedule tests and/or vaccinations from a publicly reachable form into a 30 year old internal EHR system. Concept to HIPAA audited and deployed in one weekend.
- Helped maintain a large, 100s of TB of ~500B files, entirely event data highway in a fully redundant to provide indexing, virus scanning, replay capability, and forwarding of information.
- Lead multiple milestones to updating the data highway. For example: Updating the inventory index from a daily resync to a live update model.

SKILLS

JavaScript, AWS CDK, AWS, Mongo, MySql, React, Angular, NodeJs, ElasticSearch, HTML/CSS, WebPack, Java, Terraform, Terragrunt, Docker, PHP, WordPress, GraphQ, Vue.js, PostgreSQL, Packer, and Python

EDUCATION

University of Maryland, College Park — *B.S. in Computer Science*

December 2015

Certifications and Expirations

- https://www.credly.com/users/peter-grasso.d0929f0e
- AWS Golden Jacket

Personal Projects/Achievements (optional):

Starter React Repo (GitHub):

- Starter repo to allow for rapid prototyping of new tools that support a large variety of intended use cases
- Nodejs and React to accommodate a single language
- Server agnostic code that allows the server side application to be deployed to AWS Lambda, EC2, or ECS to best suit the project needs
- Prebuilt deploy scripts to facilitate immutable infrastructure tennants for servers and server based applications.
- Optimized Dockerfiles for both local development and a deployed environment built for autoscaling
- Supports both server side rendering and static UI files
- Only required software to run everything, including the infrastructure deployments, with docker to accelerate introducing new developers
- Already cloned into 5 different work projects to rapidly deploy new projects

Hobbies/Passions (optional):

- Cars and high performance driving, home improvement, video games, and museums