

## MICHAEL “BRETT” BOYLEN

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### SUMMARY

Seasoned Engineer and Consultant with a comprehensive background in AWS Architecture, Software Engineering, and DevOps. Proven track record in leading technical teams, designing scalable cloud solutions, and driving innovation. Experienced in mentoring and fostering collaboration to achieve business goals. Currently seeking opportunities to leverage AWS expertise and technical leadership skills to help organizations optimize their cloud infrastructure and streamline their operations.

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### PROFESSIONAL EXPERIENCE

#### **DealerBuilt (fully remote)**

*Lead Software Engineer*

September 2023 - Present

- Led effort and transitioned the entire Engineering organization to Terraform from non-standardized practices; This included setting up Atlantis to allow Engineers to deploy infrastructure after terraform pull requests were approved.
  - Drove full adoption and training of both Terraform and Atlantis
- Architected a company wide event bus using EventBridge and drove adoption across the Engineering organization
- Architected and developed an entire serverless web application from the ground up, including doing all of this as the sole Engineer: Terraform, Golang Lambda Functions and Fargate tasks, API Gateway setup, Amplify CI/CD, and the Vue.js frontend
  - This included migrating over 10 TB of raw file data that was stored in hundreds of source client databases as raw blob data over to S3 Intelligent Storage data storage type
  - The metadata of each object was stored in DynamoDB
  - Nightly ECS Fargate migrations run to migrate new files over to the new web app via an EventBridge rule
    - Written in Golang
  - Wrote Vue.js frontend that included auth to allow users to log in and view all files associated with their account;
    - Frontend deployed out via Amplify with different Git branching strategies for dev/staging vs production environments

- API gateway endpoints which trigger Lambda functions that allowed for users to get metadata for their files as well as a pre-signed S3 URL that is valid for only a few minutes once someone attempts to view a file for security best-practices
- Evaluated opportunities for cost savings across over a dozen different AWS accounts; Implementing these suggestions saved us over \$120k a month via various optimization techniques including reserved instances, spot instances, provisioned DynamoDB capacity with autoscaling, and more.
- Developed and implemented a comprehensive disaster recovery strategy, ensuring data redundancy and rapid recovery capabilities.
- Implemented CloudWatch alarm integrations with Datadog and PagerDuty to monitor critical system alerts, establishing a proactive approach to issue resolution. This initiative replaced a lack of prior monitoring, enabling the team to detect and address platform bugs early, significantly improving system stability and reliability.

**Technologies Used:** Amazon Web Services (AWS), Golang, Python, Terraform, Docker, Kubernetes, Jenkins, Github Actions, BigQuery, Machine Learning, Vue.js, Datadog, OpsGenie, PostgreSQL (Postgres), Hashicorp Vault, StatsD, Apache Airflow, API Gateway, ECS, Fargate, Lambda, RDS/Aurora, DynamoDB,

**LTK, Dallas, TX (fully remote)**

*Senior Software Engineer II (Tech Lead)*

January 2023

- Provided technical and Agile leadership for the Creator Acquisitions team.
- Acted as Interim Manager, leading scrum ceremonies for a team of seven.
- Managed and motivated the team, addressing challenges to ensure optimal performance.
- Led the recruitment process, including resume screening and technical interviews.
- Mentored new hires and onboarded them to LTK's services and workflows.
- Developed solutions to enhance user experience and security, including email validation and custom WAF rules.
- Designed and implemented the creator application workflow, ensuring seamless data ingestion into the data lake.
- Mentored junior engineers, provided training, and conducted code reviews.
- Deployed code and infrastructure using CI/CD tools and managed deployments via CloudFormation.
- Designed DynamoDB schemas, optimized costs, and developed AWS-based solutions including DynamoDB autoscaling and reserved capacity.
- Implemented AWS Personalize for better recommendations and built a high-traffic consumer deeplink service.

**Technologies Used:** Golang, PHP, Vue.js, AWS (RDS, DynamoDB, Lambda, ECS, ECR, CloudFormation), Docker, GitHub Actions, PagerDuty, Datadog.

**Creative Escape, LLC, Raleigh, NC**

*Founder & President*

June 2020 - Present

- Founder and President of consulting business, offering C2C (corp to corp) consulting services with a specialization in AWS/GCP and other cloud-based solutions, as well as Golang/Python/JavaScript/TypeScript as our main programming languages, although others are sometimes used when necessary
- Manage client relationships and new client acquisition
- Bookkeeping and payroll

**Cisco Systems (Contract), Morrisville, NC (Fully Remote)**

*Software Engineer / DevOps Engineer / DevSecOps Partner Advocate*

March 2019 - January 2021

- Worked on an e-Learning platform serving over 100,000 users.
- Transitioned to DevOps Engineer, implementing security best practices and managing Kubernetes clusters.
- Developed microservices with serverless approaches using AWS Lambda and API Gateway.

**Technologies Used:** Kubernetes, Docker, Golang, PHP, Vue.js, AWS (EKS, EC2, RDS, S3, Secrets Manager, API Gateway).

**Atlantic BT, Morrisville, NC**

*Drupal Developer*

January 2018 - March 2019

- Led the development of the new NC Courts website and other major projects.
- Mentored developers, conducted code reviews, and implemented TDD practices.

**Technologies Used:** PHP, Drupal, Laravel, Jenkins, AWS.

**Centerline Digital, Raleigh, NC**

*Interactive Back-End Developer*

September 2014 – April 2015

- Developed Drupal websites and interactive infographics for clients like GE and IBM.

**Technologies Used:** PHP, Drupal, AngularJS, REST.

**Miller Davis Agency, Salisbury, NC**

*Lead Web Developer (Remote Position)*

November 2012 - 2019

- Developed custom Drupal systems for various industries and implemented automated reporting tools.

**Technologies Used:** PHP, Drupal, Git, REST.

**IGN Entertainment, San Francisco, CA (Remote Position)**

*Site Manager*

January 2004 - October 2004

- Managed content and features for the City of Heroes/City of Villains Vault website.

**Technologies Used:** PHP, MySQL.

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**EDUCATION**

High Point University, High Point, NC

*Bachelor of Science in Computer Science, 2009*

Clemson University, Clemson, SC

*Post-Graduate Coursework in Computer Science, 2009 - 2011*

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**CERTIFICATIONS**

Amazon Web Services Certified Developer - Associate

Cert. #: 6EGMYPF2LMF1QJSK

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**TECHNICAL SKILLS**

Consulting, Golang, Python, JavaScript, TypeScript, React, Vue.js, PHP, MySQL, Postgres (PostgreSQL), SQL, Laravel, Docker, Docker Compose, Jenkins, Google Cloud Platform (GCP), Amazon Web Services (AWS) (ECS, Lambda, CloudFormation, EC2, S3, RDS, DynamoDB, CloudWatch, Glue, Database Migration Service, Secrets Manager, EKS, SSM, Redshift, and more), Kubernetes, CI/CD, DevOps, DevSecOps, Microservices, Agile, Jira, TDD, REST, GraphQL, Datadog, BigQuery, ETL and more.