DAVID KWON

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Professional Summary

Senior Full-Stack Engineer skilled in **Go**, **TypeScript**, **Python**, **C#**, **gRPC**, **GraphQL**, and **AWS** serverless. Led Taco Bell's pricing and POS platforms for 8,000+ locations, boosting efficiency by 90% and earning the 2023 Innovation Challenge award. Enhanced Hadrian's aerospace manufacturing with **Go** microservices and **React** dashboards, cutting errors by 30%. Expert in **DynamoDB** and **AppSync** for serverless solutions.

Professional Experience

Hadrian Automation, Full Stack Software Engineer – Torrance, CA   06/2025 – 09/2025

- Built demand planning and real-time factory floor task queues using **Go** and **gRPC** microservices, integrating with manufacturing systems, reducing scheduling errors by 30%.
- Developed **React**, **Next.js**, and **TypeScript** dashboards for real-time production visibility, cutting operator decision-making time by 25%.
- Supported system rollout and on-call operations, ensuring 99.9% uptime for critical aerospace workflows.

Yum! Brands - Taco Bell, Senior Software Engineer – Irvine, CA   06/2022 – 06/2025

- Led Next Generation POS Menu Delivery System, modernizing system architecture with **AWS** (**Lambda**, **S3**, **SQS**) and **.NET/C#**, increasing order throughput by 40% and fostering Yum! Brands partnership.
- Architected serverless pricing and rewards platform using **GraphQL**, **AWS AppSync**, **DynamoDB**, and **TypeScript**, enabling real-time CRUD operations for 100K+ product prices across 8,000+ locations.
- Improved back-of-house inventory processing by 87% with a **Go**-based performance engine on **AWS Lambda**, replacing legacy **Node.js** with concurrency-safe implementations.
- Designed kitchen display management APIs using **GraphQL**, **CDK**, and **DynamoDB**, enabling real-time updates with **Cognito**-based role access, reducing display latency by 30%.

Yum! Brands - Taco Bell, Software Engineer II – Irvine, CA   06/2020 – 06/2022

- Developed PIE.AI, an award-winning AI-powered service desk system using **Python**, **AWS** serverless, and **NLP** pipelines, automating 10K+ monthly support calls.
- Built serverless ETL pipeline with **AWS Step Functions** and **Lambda**, reducing pricing sync time by 90% compared to legacy **SQL Server** batch processing for 8,000+ locations.
- Created **GraphQL**-based pricing API for 8,000+ restaurants, achieving 99.9% uptime and sub-second query latency.

Yum! Brands - Taco Bell, Software Engineer I – Irvine, CA   06/2019 – 06/2020

- Developed **Python**-based ETL workflows to consolidate data inputs from multiple sources for cross-team analytics and reporting.
- Contributed to responsive web app with **Next.js** and **React** for enterprise menu pricing, enabling real-time edits on **AWS** serverless stack.

UCI Division of Continuing Education, Web Developer – Irvine, CA   06/2017 – 06/2019

- Developed features for a scalable Learning Management System serving 50K+ students using **AWS**, **S3**, and **Python**.

Education

University of California, Irvine, B.S. Computer Science   2019