Max McCorkel

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SUMMARY

Experienced backend software engineer with a mathematics degree from Cal Poly, San Luis Obispo.
Passion for designing and creating quality microservices and databases using .NET or Java Spring Boot on the Azure or AWS clouds.

EXPERIENCE

Technology & Marketing Consultant

Self-Employed   **July 2024 – Present, Remote**

· Created cloud-based digital marketing solutions to empower customers by employing new marketing pathways that reach a larger audience.
· Engineered cross-channel marketing strategies that increased client lead generation.

AI Model Trainer

Outlier   **April 2024 – Present, Remote**

· Identified prompt responses from AI models that break safety rules or deviate from accepted parameters.
· Researched topics and created new responses to train AI models according to project guidelines.

Systems Engineer

Photon Medical Communications   **May 2023 – November 2023, Scottsdale, Arizona**

· Developed Azure Active Directory B2C client to support federated user login and authentication on Web, Android, and iOS apps with Google, Apple, or Microsoft accounts.
· Created Azure cloud resources to store and retrieve incoming DICOM and HL7/FHIR data from hospital systems into Azure FhirAPI and SQL databases.
· Built backend microservices to support real-time chat between users with Azure SQL Databases, Azure Functions, and .NET Core APIs in C#.

Senior Software Engineer

Carvana   **April 2022 – March 2023, Tempe, Arizona**

· Designed, created, and lead project for a new .NET Core microservice that used different strategies for automatically calculating a customer's income from an uploaded paystub document.
· Designed data structures and schema for SQL Tables used in new Paystub Income Calculator microservice, and then tested and deployed SQL table creation scripts and SQL query scripts.
· Created Figma diagrams explaining data flow and events between microservices.
· Used SSMS, Azure Data Studio, and Splunk to write scripts to monitor the progress of validation requirement fulfillment.
· Created a microservice to automatically validate an uploaded proof-of-address document according to that customer's county or state title and registration rules.

Backend Software Engineer

Homie   **December 2020 – February 2022, South Jordan, Utah**

· Developed .NET Core services and APIs in C# used by the Homie web and mobile apps to allow customers to input information and publish homes for sale online.
· Created integrations between Homie backend services, 3rd parties, and Microsoft Dynamics to sync data between marketing partners.

Senior Software Engineer

MasterControl   **October 2018 – July 2020, Cottonwood Heights, Utah**

· Integrated ElasticSearch servers and implemented an indexing strategy that allows search queries on encrypted document contents.
· Refactored checklist module using Angular 8frontend and Java backend to allow more flexibility when uploading documents or launching tasks for clinical trials and FDA registrations.

Software Engineer

General Atomics Aeronautical Systems   **December 2016 – September 2018, Layton, Utah**

· Developed features for the Claw 3mission management software.
· Replaced the backend SQL database and Claw 3 data access layer with MongoDB that runs locally or as a RESTful web service.

Android Software Engineer

Chronicle Technologies   **December 2014 – December 2015, Remote/Riverside, California**

· Lead development on the Chronicle Android app, which gives disaster-recovery field agents access to job information, navigation to job sites, company email & photo uploads, and labor time logging.
· Coordinated updates with backend and iOS teams.

Associate Software Engineer

CygNet Software   **June 2012 - September 2013, San Luis Obispo, California**

· Helped create a flow measurement system for oil and natural gas.
· Created a new calculation engine based on industry standards that determined standard values and meter accuracy from pipeline variables.

Associate Software Developer

E*Trade Financial   **August 2010 - November 2011, Menlo Park, California**

· Developed the necessary code to analyze and detect ongoing fraud trends.
· Created code to generate dashboards for management to review daily fraudulent transactions and lost trades.

EDUCATION

Bachelors of Science in Mathematics

California Polytechnic State University, San Luis Obispo · San Luis Obispo, California · 2010
· Emphasis on applied math/computer science.

CERTIFICATIONS

AI-900 Microsoft Certified: Azure AI Fundamentals

2024

AZ-900 Microsoft Certified: Azure Fundamentals

2023

Amazon Web Services Cloud Practitioner

2019

Certified SAFe 4 Scrum Master

2019