Christian Peth

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Pleasanton, CA

TECHNICAL SKILLS

Languages: Go, Python, C#, TypeScript, JavaScript, Java, Kotlin

Platforms: Web, AWS, Docker, GCP

Practices: CI/CD, DevOps, Infrastructure-as-Code, Scrum / Kanban

Database: PostgreSQL, MySQL, SQL Server, ElasticSearch/OpenSearch, DynamoDB, Firestore, BigQuery

Architecture: Micro-services, Serverless, Distributed Computing, Event-sourcing

EXPERIENCE

Lead Software Engineer, Cloud

Blast Motion Inc. - Carlsbad, CA
May 2018 - June 2023

- Designed and developed serverless, event-sourced architecture to supplant aging monolith using AWS technologies including Lambda, DynamoDB, Kinesis, S3, and OpenSearch to support processing of baseball and golf swing data from hundreds of thousands of field-deployed devices
- Implemented services in Python, C#, Kotlin Native
- Led a team of software engineers responsible for building scalable IoT cloud solutions that processed 2.1TB of data monthly
- Architected and delivered external facing REST APIs used by industry partners including Major League Baseball teams
- Created data lake and ETL pipelines using AWS Kinesis, Apache Spark, Apache Hudi, and AWS Glue
- Implemented continuous integration and delivery pipelines using Docker, Gitlab Pipelines, and Terraform
- Trained Convolutional Neural Network (CNN) as POC for improved impact event detection
- Developed large parallel batch data processing jobs using AWS Batch for data sales and migration
- Mentored and trained junior and off-shore software engineers on AWS technologies and cloud-based software development

Software Architect

Millennium Health - San Diego, CA
June 2016 - February 2018

- Complete design and architecture of greenfield micro-service based laboratory ordering web portal for genetic testing of infectious disease samples
- Designed a fully distributed, high-availability, HIPAA compliant, cloud-based system
- Developed reference implementations and critical services
- Selected technologies and managed hiring of vanguard development team for greenfield
- Launched system on-time within extremely demanding time-frame
- Built RESTful APIs implemented as Go, C#, or Node micro-services running in Linux Docker containers deployed on AWS ECS
- Implemented fit-for-purpose persistence via RDS Aurora MySQL for relational models or DynamoDB for NoSQL depending on service
- Configured ElasticSearch full-text indexing and search
- Utilized Apache Kafka for event-sourcing and extraction to data-lake

Senior Software Engineer

Ceresti Health - Carlsbad, CA
March 2015 - March 2016

- Greenfield development of entire backend software stack using Go, PostgreSQL, Redis, Nginx, and Docker
- Implementation of RESTful web API server and real-time websocket server in Go
- Performed full management and operations responsibilities for all environments using Ubuntu Server 14.04, Docker, Aptible, Papertrail, DeferredPanic
- Setup continuous integration and deployment system using Shippable, DockerHub, CaptainHook
- Mentoring of front-end and mobile developers

Technical Contractor (contract)

Pirch - San Diego, CA
May 2014 - March 2015

- Full stack development of greenfield internal applications and tools primarily focused on data acquisition using C# and SQL Server
- Creation of tools to acquire data from many sources, such as Excel, external APIs, XML, and flat files
- Complete development of internal web dashboards using Angular, MVC 5, ASP.NET Web API (RESTful)

Software Developer (contract)

Faulkner Media Group - San Diego, CA
January 2014 - April 2014

- Full stack development of CMS for the financial services industry using C#, ASP.NET, SQL Server, Entity Framework

Software Developer

ClosingCorp - La Jolla, CA
2012 - 2013

- Full stack development of SaaS web application for the mortgage industry using C#, .NET 4, MVC, SQL Server
- Worked closely with a small team to develop integrations, internal tools, and APIs
- Agile / Scrum environment with a one-month sprint cycle

Software Engineer

Rackwise Inc. - Raleigh, NC (Remote)
2011 - 2012

- Principal developer of integrations for enterprise data-center management software suite using C#, .NET 4, WCF, SQL Server
- Developer of custom reports for MS SQL Server Reporting Services

Software Developer

Paychex Benefit Technologies Inc. - San Diego, CA
2008 - 2011

- Performed full life-cycle development and support of N-tiered enterprise SaaS web application using C#, ASP.NET, WCF, and SQL Server in an Agile environment
- Designed, developed, and implemented a framework and tools to facilitate Single Sign-On integration with a variety of partners using SAML and other technologies

EDUCATION

California State University at San Marcos

2005 - 2007

- Computer Science Major

Palomar Community College

2001 - 2004