

CORY KIM

SOFTWARE ENGINEER

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OBJECTIVE

I am seeking a challenging role as a software developer at a technology-focused company. I love to think about big problems, prototype solutions, and develop robust, secure, scalable, and maintainable implementations.

EXPERIENCE

Independent Consultant, 2019 – Present

- Designed and developed a microservice for Cloudflare to process Stripe authorization requests in real-time.
 - Coded in Go.
 - Integrated with Workday and Proxy.com.
 - PostgreSQL as database back-end.
 - GORM object-relational library.
 - Deployed via Kubernetes.
- Led the development of a data sales platform for ExtractAlpha.
 - Vue front-end, GraphQL API back-end.
 - Highcharts and agGrid for data visualization.
 - Okta / OpenID for authentication.
 - Backend automation and data preparation using Python and pandas.
- Designed and developed the customer portal for iFLY.
 - React / Redux front-end, with custom modules to improve maintainability of Redux.
 - Interfaced with .NET web service API.
 - Developed ETL flows to consolidate global customer data to a centralized data warehouse, using Microsoft SQL Server and Microsoft SSIS.
- Architected an App Store model using NodeJS for Das Keyboard
 - Design was inspired by the module system contained in VSCode.
 - Created endpoints in Express to support the installation, removal, and execution of Javascript modules that functioned as apps.
 - Integrated with third-party platforms such as Twitter and Github using OAuth2 for authentication.
 - Developed multiple apps to be used on the store, such as Stripe notifications, weather reports, and CPU temperature monitors.

EDUCATION

Georgia Institute of Technology
Atlanta, Georgia

KEY SKILLS

- WEB SERVICES
- WEB APPLICATIONS
- GRAPH APIS
- DATA ANALYTICS
- IDENTITY MANAGEMENT
- SOFTWARE ARCHITECTURE

LANGUAGES

- GO
- JAVA
- JAVASCRIPT / ES6
- SCALA
- PYTHON

TOOLS

- REACT / REDUX
- VUE.JS
- NODE.JS
- APACHE SPARK
- GRAPHQL
- NEO4J / CYPHER QL
- OPENID / OAUTH

CTO, +AMP Corporation, 2014 – 2019

We created a platform for collaboratively building, sharing, and publishing data models. It was a cloud-native web service that allowed users to upload arbitrary data sets and perform computational operations on their data and stream the results back to a web application or script.

- The platform code was written almost entirely in Scala. Other major components included:
 - Apache Spark and Apache Hadoop for performing the computations themselves.
 - Neo4J to create a graph database that expressed the interactions between users, data sets, and computational operations. Every computation was expressed as a graph of smaller primitives.
 - A GraphQL API using Sangria, to bridge the Spark and Neo4J components.
 - Akka actor system to dispatch computation tasks with high levels of concurrency and reliability.
 - Akka HTTP to create additional REST endpoints.
 - Spray JSON to deliver the result payload to the API.
 - Identity management was handled using OpenID Connect.
- Developed scheduled jobs to scrape data sets from web sources.
 - Coded in Java 8.
 - Selenium and headless Chrome to access web sources.

President, DigitHaus Corporation, 2000 – 2014

As a technology partner for HP Software, we implemented content management and web experience for numerous household names, such as NFL, Intel, Safeway, Western Union, Dow Chemical, and Kaiser Permanente.

- The CMS and WCM platforms were built on top of commercial products from HP Software.
- Implementations used a range of Java versions from 1.2 to 8.
- Responsible for content and metadata architectures that enable targeted content, A/B and multivariate testing.
- Created a RESTful interface in Java that allowed websites to dynamically request targeted content from the CMS layer. Supported A/B and multivariate testing.
- Implemented caching systems to handle extremely heavy load while still maintaining the ability to serve targeted content.
- Implemented a fully automated end-to-end test system that encompassed the entire technology stack.

Project Manager, IBM, 1994 – 2000

Led the development of IBM's first AI-driven technical support assistant, deployed to all IBM customers and service representatives.

- Architected the system, taking guidance from the IBM Watson team.
- Coded major portions of the system using Perl.

COMMUNICATION AND LEADERSHIP

- Demonstrated IBM's technical support system to investors and analysts at a CEO briefing. I jokingly take credit for the modest increase in IBM's share price on that day.
- Designed and led the development of a technology demo that the CEO of HP presented to key employees and customers.
- Regularly briefed and advised executives at major companies on their content management and web customer experience platforms.