

Kord Boniadi

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SKILLS

Languages: (proficient): C++, Java, Python, Go, C#, JavaScript, HTML/CSS (familiar): TypeScript, SQL

Tools/Frameworks: (proficient): Linux, Kubernetes, Docker, Kafka, AWS(EC2, S3, Lambda, DynamoDB), Flask, React.js, Blazor, React Native, gRPC, Protocol buffers, ClickHouse, RDBMS, NoSQL (familiar): Angular, Redis, RabbitMQ, Jenkins

EXPERIENCE

Software Engineer | [Tesla Inc.](#)

May 2023 – Present

- Developed and now manage a CDC pipeline service to automate onboarding one-to-many database replication schemas.
- Enhanced the security of multiple API's by implementing user and M2M based ADFS token authentication.
- Optimized runtime performance of various applications by refining Docker build and deployment scripts.
- Significantly enhanced database query resolution by 100x through data migration to a Data Warehouse and implementation of optimized schema/architecture featuring materialized views, database replicas, and sharding.
- Leveraged knowledge in C#, Go, Kubernetes, Docker, Kafka, gRPC, Protobuf, ClickHouse, RDBMS

Software Engineer | [Kible Inc.](#)

Jun. 2019 – May 2023

- Improved our cloud optimized browser's latency by 2ms by refactoring H.264 decoding algorithm in Emscripten.
- Utilized gRPC and Protobuf to improve old and develop new endpoints for the core API written in Go.
- Improved service deployment and cleanup by a measurable amount through optimizations using Kubernetes.
- Implemented UI components for the main website's buy, and user authentication pages.
- Collaborated with the QA team to identify bugs and bottlenecks that were affecting performance.
- Leveraged knowledge in Git, Go, C++, gRPC, Protobuf, Docker, Kubernetes, [Ultralight](#), JavaScript, MongoDB

Software Engineer (volunteer) | [Community for Global Innovation](#)

Sep. 2022 – Mar. 2023

- Created an iOS app using React Native to connect college students with pro bono lawyers to provide free legal services.
- Designed and developed a server-less API and Web App backend using Flask hosted using AWS Lambda.
- Implemented caching using Redis to improve latency and performance of frequently pinged API endpoints.
- Stored and managed data using DynamoDB to maximize query speeds and to keep with a server-less design.
- Leveraged knowledge in Python, JavaScript, AWS(S3, Lambda, DynamoDB), Docker, Redis, Flask, React Native

Software Engineer Intern | [Apple Inc.](#)

Jun. 2022 – Sept. 2022

- Spearheaded the development of a next generation web app for R&D teams to improve data access.
- Integrated new and legacy API's to ensure a seamless migration from existing services.
- Improved page load times by nearly 30% by optimizing asset caching mechanisms and pre-rendering content.
- Collaborated with both software and hardware engineers across multiple teams.
- Leveraged knowledge in Git, C#, JavaScript, HTML/CSS, REST API, Blazor, RabbitMQ

Software Engineer (Contract) | [Agil Solutions](#)

Jun. 2021 – Jun. 2022

- Developed a web admin portal for a client using C# and the Blazor framework with an ASP.NET backend.
- Utilized the CircleCI pipeline to facilitate the integration of multiple changes to the core codebase as well as the automation for deployment of version updates.
- Maintained and contributed new features and components to multiple React.js web portal projects simultaneously.
- Collaborated with team which involved daily stand-ups and weekly deliverables. Relied on agile methodology.
- Leveraged knowledge in Git, C#, JavaScript, HTML/CSS, REST API, Blazor, React.js, ASP.NET, CircleCI

PROJECTS

Search Engine

- Developed a Python based Web search engine from the ground up that is capable of handling tens of thousands of Web pages, under harsh operational constraints and having a query response time under 300ms.
- Achieved constraints by implementing and designing the engine to use an inverted index, vector space model, tf-idf factor, cosine similarity score, MapReduce paradigm and distributed query evaluation.
- Utilized: Python, Flask, MapReduce paradigm

EDUCATION

B.S. in Software Engineering (in-major GPA: 3.94)

University of California Irvine, Irvine, CA