

# Kord Boniadi

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## EDUCATION

### B.S. in Software Engineering

University of California Irvine, Irvine, CA

Sep. 2021 – June 2023

## SKILLS

**Programming Languages:** C, C++, Java, C#, Python, Go, Javascript, TypeScript, SQL, HTML, CSS

**Tools/Frameworks:** Git, Linux, Protobuf, gRPC, Kubernetes, Docker, AWS(EC2, S3, Lambda, DynamoDB), Flask, React.js, Blazor, React Native, Qt, RabbitMQ, Redis, MongoDB, PostgreSQL

## EXPERIENCE

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

Jun. 2022 – Sept. 2022

- Developed and adapted the core system used by R&D teams for data access and visualization.
- Managed and led the overall development of the next generation web app release using the Blazor framework.
- Integrated the application with internal services as well as new and legacy API's.
- Designed and architected the application's internal structure and object models to facilitate a design that's both dynamic and modular under hard operational constraints.
- Collaborated with both software and hardware engineers across multiple teams.

### Software Engineer | [Kible Inc. \(kible.com\)](#)

Oct. 2020 – Jun. 2022

- Built both web and application based cloud optimized browser.
- Designed and built extensible and dynamic backend API powered by gRPC and Protobuf written in Golang.
- Managed and deployed a dockerised cloud backend orchestrated using Kubernetes.
- Collaborated with front-end and graphics design team to build UI components for the web client.
- Closely collaborated with the QA team that was responsible for bug tracking and beta testing the software.

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

Jun. 2021 – Jun. 2022

- Developed--from the ground up--and now maintain a web portal using the Blazor web framework.
- 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.
- Maintain and contribute new features to multiple React.js web portal projects simultaneously.
- Collaborated with team members which involved daily stand-ups and weekly deliverables. Heavily relied on agile methodology.

## Projects

### Search Engine

- Developed a 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.
- Implemented an inverted index, vector space model, tf-idf factor, cosine similarity score, MapReduce paradigm and distributed query evaluation.

### CFGI iOS App

- Created an app using React Native to connect college students with pro bono lawyers to provide free legal help.
- Designed and developed the API and Web App backend using Flask hosted using AWS Lambda and DynamoDB.
- Implemented caching using Redis to improve latency and performance of the API.

### Multiplayer Game

- Developed a full-stack network-based multiplayer game with a robust and scalable infrastructure with a team of four developers.
- Designed the backend using the microservice architecture to assimilate independently operating modules to ensure minimal downtime and optimal scalability.
- Implemented a custom messaging queue to facilitate communication in real-time between the different services.
- Developed and implemented a server architecture that included a robust network structure and thread pool management to ensure the server backend could properly and efficiently manage a high amount of traffic.
- Created and hosted a PostgreSQL database in the cloud which persisted user data, game statistics, and global leaderboards.