

# Kun Wang

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## EXPERIENCE

### KEELWORKS FOUNDATION TECH LEAD - FULL STACK

Seattle, WA | Jan 2024 – Present

- Led a team of **8** developers in designing and implementing KeelHub, a full-stack volunteer management system serving **2,000+** daily active users.
- Implemented a robust user authentication and authorization system, integrating **Google OAuth2** for seamless sign-in and **Google Authenticator** for two-factor authentication (2FA).
- Developed a responsive frontend using **React.js** and **Tailwind CSS**, crafting over **200** reusable components to ensure consistency and efficiency. Implemented a comprehensive role-based rendering system for **6** distinct user roles, dynamically adjusting UI elements and access permissions.
- Architected a dynamic UI system with **React** and **Redux**, optimizing performance through **React hooks**, **Redux Toolkit**, and memoization (**React.memo**, **useMemo**). Implemented code splitting and lazy loading (**React.lazy**, **Suspense**), resulting in **40%** faster initial load times.
- Engineered a comprehensive RESTful API infrastructure using **Node.js** and **Express**, creating over **40** data models with corresponding controllers and routes, resulting in **200+** endpoints for frontend and external app consumption. Implemented API versioning and rate limiting to manage high-volume requests, ensuring scalability for **500+** concurrent users.
- Architected a scalable **MySQL** database schema, utilizing **Sequelize ORM** for robust data modeling and query optimization. Implemented customized secondary indexing and **Redis**-based caching strategies, reducing average query response time by **60%** and supporting **1000+** read operations per second.
- Managed project workflow using **JIRA** and Agile methodologies. Conducted one-on-one meetings with **8** developers to track progress, address challenges, and ensure timely delivery.
- Containerized the application using **Docker**, deploying on **AWS EC2** with auto-scaling and load balancing.

### DANDYKING SOFTWARE ENGINEER INTERN

April 2023 – August 2023

- Engineered robust back-end infrastructure using **Java** and **Spring Boot**, implementing **RESTful APIs** with **Spring Web MVC**. Achieved handling of **1000+** requests/second.
- Optimized data handling with **MyBatis**, **DynamoDB**, **Redis**, and **RabbitMQ**, ensuring real-time updates for inventory and transactions. Supported **10,000+** concurrent users during peak hours with efficient message queuing and event-driven architecture.

## PROJECTS

### PASSWORD MANAGER Website: 3.143.0.191:3001

- Engineered a secure full-stack password management app using **JavaScript**, **React**, **Node.js**, **Express**, and **MongoDB**. Implemented custom password generation with adjustable length and character types, secure encryption for storage, and user-to-user sharing functionality, all exposed through a RESTful API.

## EDUCATION

### NORTHEASTERN UNIVERSITY

M.S. IN COMPUTER SCIENCE

Seattle, WA | Expected Dec 2025

GPA: 4.0 / 4.0

## SKILLS

### PROGRAMMING LANGUAGES

Java • Python • C++ • JavaScript • PHP • HTML • CSS

### DATABASES

MySQL • MongoDB • Redis • SQLite • DynamoDB

### TOOLS & PLATFORMS

Git • AWS • Azure • Docker • Jenkins CI/CD

### FRAMEWORKS & LIBRARIES

Node.js • React • Angular • Spring Boot • Laravel • Flask • Django • Bootstrap

### TESTING

JUnit • Pytest • XUnit • Jest • Supertest

## LINKS

### LINKEDIN

<https://www.linkedin.com/in/kun-wang-9221a5294/>

### WEBSITE

<https://kunwang0527.github.io/Personal-website/>

### GITHUB

<https://github.com/KunWang0527>

### KEELHUB PORTFOLIO

Internal project under NDA;

Figma file walkthrough available upon request