Jaeyol Lee

Front-End Developer

Innovative and creative developer with a strong computer science background and web expertise, skilled in crafting visually stunning, user-friendly interfaces and leveraging exceptional UI/UX design. As a natural leader, I passionately optimize digital experiences for seamless user interactions, bringing a unique perspective as a 1.5 generation Korean American and excelling at addressing diverse user needs. Committed to delivering high-performing web applications with a meticulous, detail-oriented approach, I am a creative full-stack web developer adept at crafting efficient, user-centric applications. Driven by a passion for voracious self-learning, I efficiently achieve goals and deliver optimal results with limited resources, blending technical expertise and a global mindset to create innovative digital experiences marked by meticulous attention to detail. I am a versatile software engineer with a passion for developing innovative, user-centric solutions, skilled in architecting scalable, high-performing applications across diverse domains and leveraging robust full-stack expertise. As a voracious problem-solver, I thrive on optimizing complex systems for effortless user experiences and excel at understanding and addressing diverse requirements.

WORK EXPERIENCE

Research Assistant - Web Developer   01/2023 – Present
University of Kansas Design Department | Lawrence, KS

- Spearheaded the development of innovative web applications for healthcare, emphasizing diabetes management, and implemented a design thinking methodology to craft intuitive user interfaces for enhanced user experience
- Deployed applications utilizing Vercel, ensuring optimal performance and scalability, and demonstrated proficiency in Figma, TailwindCSS, Next.js, React.js, and Vercel.

Student IT Technician   06/2022 – 07/2024
University of Kansas IT Department | Lawrence, KS

- Configured campus devices using JAMF and Microsoft Endpoint Management, streamlining IT issue tracking and resolution via ServiceNow.
- Provided troubleshooting support as a team leader, demonstrating strong communication skills in managing deadlines and device operations.

PROJECTS & RESEARCH

Diabetes Healthcare Roadmap   01/2023 – Present
Full-Stack Web Development | *Next JS, React JS, TailwindCSS, Vercel, Figma*

- Utilized advanced design thinking methodologies to enhance user experience and interface design for healthcare web applications.
- Developed a patient-centric web application that bridged the gap between patients and diabetic care information by collecting user surveys.
- Proficient in utilizing Next.js, React.js, TailwindCSS, and Vercel to design and enhance user interfaces.

LeeTube (Video Sharing Platform)   02/2024 – 08/2024
Full-Stack Video Sharing Media | *Node.js, ES6, React JS, MongoDB, Mongoose, NoSQL*

- Created a clone project of YouTube Video Sharing Service, showcasing high-level technical skills and attention to detail.
- Executed full-stack development of a high-performance video sharing web service, optimizing functionality and UX with a non-relational database.
- Leveraged a tech stack including Express.js, Node.js, ES6, MongoDB, and Mongoose to achieve project objectives.

CONTACT

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EDUCATION

University of Kansas
Bachelor of Science   (3.6/4.0)
Computer Science
   Award - Engineering Scholarship
   • Data Structures & Algorithms
   • Reverse Engineering
   • AI Statistics & Machine Learning
Lawrence, KS — 05/2024

Kansas Academy of Mathematics and Science
Early College Program (4.0/4.0)
Under Fort Hays State University
   Award - Dean's Honor Roll &
         Full Year Academic Scholarship
   • Object Oriented Programming
Hays, KS — 05/2020

SKILLS

Tech Stack:
- HTML & CSS
- Javascript (ES6)
- TypeScript
- Python
- C++
- Java
- SQL & NoSQL

Framework & Library:
- React JS
- React Native
- Next JS
- Electron JS
- MongoDB
- TailwindCSS
- Express JS
- Flask
- .Net Framework
- C# NuGet

Tools and Software:
- Visual Studio Code
- Version Control & Git
- Postman API
- Figma
- Vercel Deployment
- IntelliJ

Leeable Portfolio w/ Notion DB 05/2023 – 02/2024
Full-Stack Web Development | *Postman API, Notion DB, Next JS, React JS, Vercel*

- Developed a full-stack portfolio website, leveraging Notion DB's API to ideally integrate personal data storage and retrieval.
- Utilized Next.js and React.js to build a modern, responsive frontend, deploying the application on Vercel for optimal performance.

EduStone (Learning Management System) 08/2022 – 05/2023
Full-Stack Mobile Application | *AdobeXD, Javascript, React Native, Go, Firebase (NoSQL)*

- Utilized 'Canvas API' to implement core LMS features like user authentication, course management, and student scoring system.
- Designed and developed a full-stack mobile app with optimized performance and user experience.
- Leveraged Firebase NoSQL database to efficiently store and retrieve learning content and user data.

WIZET IMG Parser (XML Parser) 01/2019 – 05/2019
C# XML Image Parsing Software | *C#, .NET, NuGet Package, XML*

- Developed a C# XML parser to extract image paths from legacy game files, supporting outdated game client
- Leveraged .NET and NuGet to build a robust, scalable solution with improved build environment and deployment process
- Improved legacy game functionality by providing a 50X faster XML data handling mechanism compared to manual image copying

ArgonMS (Online Game Server) 10/2016 – 05/2019
Online Game Server Development | *Java, Javascript, MySQL, Reverse Engineering*

- Developed a full-stack online game server as a clone of video game, MapleStory, using an outdated open-source project
- Implemented NPC reactions in JavaScript, with the server running on Java and utilizing MySQL Server & Client tools for database management
- Performed reverse engineering of the client to identify opcodes and update the server to a newer version