Ken Konno Johnson

Software Engineer | Front End Development | React.js, TypeScript, Next.js

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TECHNICAL SKILLS

Programming	React.js, JavaScript & TypeScript, Next.js, Node.js, Express.js, Tailwind, SQL
Software Tools	MongoDB, AWS, Azure, Google Cloud, Firebase, Git, Visual Studio Code, Unix, CLI

EDUCATION

University of British Columbia | Vancouver, Canada
Bachelor of Applied Science, **Computer Engineering**, Dean's Honour List

WORK EXPERIENCE

KnockNow | **Software Engineer** | Vancouver, Canada   Jan 2024 - Aug 2024
- Leveraged Latent Dirichlet Allocation and Non-Negative Matrix Factorization algorithms to tag and categorize 5,000+ real estate listing descriptions, improving user experience and boosting search accuracy by 20%
- Preprocessed real estate listing descriptions to clean and standardize data, ensuring consistency across the database
- Architected and deployed an **SQL** database on **AWS RDS**, providing seamless access to data for cross-functional teams
- Built and optimized a responsive table interface in **React** to display real estate listings from a dynamic database
- Implemented sorting and filtering to allow quick organization of listings by criteria like price and location

TTT Studios | **Software Engineer** | Vancouver, Canada   Jan 2022 - Aug 2022
- Implemented front-end components in **React Native** for a client betting app including real-time updates for odds, scores
- Developed a PM analytics tool that improved project cost and duration estimates by over 70% using Python and **Dash**
- Helped create an agile design process for client projects to improve project lifecycle efficiency and track business KPIs

Bosch | **AI Research Scientist** | Tokyo, Japan   Jun 2021 - Dec 2021
- Researched cutting-edge AI algorithms for potential patent opportunities, contributing to Bosch's IP portfolio
- Explored **reinforcement learning** by training AI agents to play games like Tetris, optimizing algorithmic performance
- Developed a video classification method leveraging human pose estimation which outperformed traditional CNNs by over 10% in accuracy and 70% in speed
- Collaborated with senior researchers to conceptualize, implement, and validate cutting-edge AI solutions

PASSION PROJECTS

Clearo | **Mobile App Developer** | Personal Project   Mar 2021 - Present
- Developed a **React Native** mobile application using **TypeScript** and **Firebase** to help users track skincare progress with daily selfies and log skincare products, diet, and other lifestyle factors
- Built a data-driven analysis system to identify correlations between logged activities and acne triggers
- Contributed to the open-sourced library **react-native-calendars** with a horizontal sliding calendar feature
- Worked with illustrators and dermatologists to create a visually engaging interface tailored to skincare needs
- Published on the **Apple App Store** achieving **234+ downloads** and a 5-star rating

F1 Racing Dashboard | **Full Stack Developer** | Personal Project   Jan 2024 - June 2024
- Developed a plug-in app for Assetto Corsa Racing Simulator allowing users to compare lap analytics against friends
- Created a dashboard to compare laps between friends and professional F1 racers with **Next.js** & **MongoDB**
- Utilized **D3.js** to build beautiful and intuitive charts that indicate where lap time is being lost and how to improve