

Noah Kim

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EDUCATION

University of Southern California

Bachelor of Science - Computer Science; Major GPA: 3.51

Los Angeles, CA

Graduating December 2023

EXPERIENCE

Full Stack Web Developer

August 2017 – Present

JMPforce (Part-time)

Remote

- Developed an AI companion for elderly care residents using JavaScript, Swift, PHP, MySQL, OpenAI API, and Oddcast's Avatar API to improve resident's quality of life through personalized interaction and support
- Collaborated with a five-person development team to develop a full-stack custom virtual-event platform for American International Group (AIG), a major financial services company, using JavaScript, PHP, and MySQL
- Developed a full-stack application using JavaScript and PHP to update and display the daily food menu in a 120+ resident elderly care facility on smart TVs, enhancing the residents' quality of life and streamlining workers' tasks

PROJECTS

etaforecast.com | React.js, Express.js, Google Directions API, Google Places API

August 2023

- Developed a user-friendly React + Express app to help people avoid traffic by showing a forecast of travel times
- Used Google Directions API for real-time traffic data to display reliable estimates in 30-minute intervals
- Implemented a color-coded system (green, orange, red) to represent traffic levels

thebrowserbot.com | React.js, OpenAI API, SpeechRecognition API, Spotify API

July 2023

- Developed a natural language processing voice command interface for a study and work assistant dashboard with React as the frontend, enabled by OpenAI combined with SpeechRecognition
- Users have the ability to talk to ChatGPT, conduct Google searches, and create study sessions through personalized music playback from their Spotify account, accompanied by a timer for enhanced productivity
- Implemented Spotify OAuth, along with cookies to track user sign-in status and manage their token ID

Time-Space A* Prioritized Multi-Agent Path Planner | C++

November 2022

- Designed a set of constraints by hand and implemented an algorithm to perform time-space A* search in x-y-t space to return the shortest collision-free path with a minimal sum of path length
- Implemented a prioritized planning solver based on the time-space A* algorithm to find paths for multiple agents, one after the other, so that they do not collide with the environment or the already planned paths of other agents

EasyTeamUp | Java, Android Studio, Google Firebase (Realtime Database + Auth)

January 2022 - May 2022

- Created a Java-based Android app to foster collaborative study and work opportunities
- Implemented event creation and real-time notifications through Google Firebase Realtime Database
- Used Google Firebase for user sign-up/sign-in capabilities

EduConnect | Swift, MessageKit, Google Firebase (Realtime Database + Auth)

April 2022 - May 2022

- Developed an iOS social network application for USC students
- Implemented real-time messaging using MessageKit
- Connected users through their current location, courses, and interests using Google Firebase Realtime Database
- Used Google Firebase for user sign-up/sign-in capabilities

SoCal Events | Java, socket.io, MySQL, JavaScript

September 2021 - December 2021

- Developed a full-stack web application with real-time event notifications and secure invitation-based participation
- Employed Java and socket.io for the back-end and integrated JavaScript for the frontend
- Implemented user sign-in/sign-up capabilities using hashing and MySQL

TECHNICAL SKILLS

Languages: JavaScript, C++, Java, PHP, Swift (iOS), SQL, HTML, CSS

Frameworks: React.js, Express.js, Bootstrap, WordPress

Developer Tools: Git, MongoDB, Google Firebase, MySQL, phpMyAdmin, Android Studio, XCode, VS Code

Platforms: AWS (EC2), Docker, Google Cloud