

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

TECHNICAL SKILLS

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

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

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

Platforms: AWS, Docker, Google Cloud

EXPERIENCE

Software Engineer - Full Stack

August 2020 – Present

JMPforce (Part-time)

Remote

- 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 an 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
- 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

PROJECTS

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

August 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

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

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