Quan Minh Nguyen

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Education

San Diego Mesa College
· Sophomore BS Computer Science
· GPA: 4.0

Skills & Abilities

Programming & markup languages :	Java, HTML, CSS, JavaScript, XML, C++
Frameworks & Libraries:	ReactJS, Express, Socket.io, Bootstrap, jQuery
Mobile app development:	Android Studio
Database management:	MySQL
Version Control System:	Git
JavaScript Runtime Environment:	NodeJS

Projects

Web Application: Quick chess – Online multiplayer chess game (JavaScript, Socket.io, NodeJS & Express)
http://quickchess.live/
· Socket.io-based chess game hosted on Heroku and built with plain JavaScript without using Chessboard.js
· Allow users to create room and join room with a given unique room ID
· Created a sophisticated logic for different types of chess pieces.
· Implemented a logic for users to take turns and start the game when both players have joined the room.

Web Application: Adopt Me – Pet adoption website (JavaScript, ReactJS, MySQL, AWS Lambda, NodeJS & Express)
https://adopt-me-home.herokuapp.com/
· A user-friendly pet adoption website that collects real-time data from over 10,000 animal shelters across the US and provides an abundant amount of animal types.
· Implemented a login system using JSON Web Token that allows users to create an account, save their pets and reset password if necessary.
· Deployed and hosted the app's backend on AWS Lambda and AWS API Gateway for authentication and data-fetching.
· Designed and managed the app's database and utilized backend caching to enhance efficiency and user experience.

Web Application: Future Message – Send email to oneself in the future (JavaScript, ReactJS, NodeJS, MySQL, Express)
https://future-message-page-by-quan.herokuapp.com/
· A full-stack application that uses MySQL as a database and utilizes REST API as a data-transfer protocol.
· Allows users to set recipient's email, sending date and content of the message to be sent in the future
· Developed a logic for the server to be working 24/7 and send email based on a specific criterion.

Web Application: TypingTest by Quan – Online typing test (JavaScript, ReactJS, NodeJS & Express)
https://typingtestbyquan.herokuapp.com/
· Developed a user-friendly interface typing test for computer users to practice their typing skills.
· Utilized REST API to fetch data in order to implement the logical functionalities of the application.
· Allows users to select 2 different typing modes: Timed and Paragraph.
· Provides calculation of WPM and accuracy at the end of test.

Other Mini Projects:
· Android App: Tik Tak Toe – 3x3 and 4x4 Tic Tac Toe game with AI impossible mode implemented with Minimax algorithm.
· Android App: WeatherToday – Weather app.
· Android App: Morse Light – Translates text into morse code and flashes device's flashlight accordingly to the morse signal, also includes SOS flashing functionality.
· Web Application: Weather by Quan – Weather app from more than 200,000 cities around the globe.
· Web Application: Mind Game – A mind game to practice brain reflex and ability to distinguish different colors.
· Web Application: Meme Maker – Generate custom-made trending memes.