SARA KIM

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EDUCATION

Hack Reactor *(Full-Tuition Scholarship Recipient)*	Advanced Software Engineering Certificate	January 2023
Texas Teachers	Texas Educator Certification (Mathematics 7-12)	May 2019
The University of Texas at Austin	BSA in Biochemistry	May 2018
	Minor in Spanish; Business Foundation Certificate	

TECHNICAL SKILLS

Front End | Javascript (ES5 & ES6), React, React Native, HTML5, CSS, Tailwind, Styled-Components, jQuery, Axios
Back End | Node.js, Express.js, Axios, MySQL, SQLite, PostgreSQL, MongoDB, Sequelize, Firebase, Auth0
Testing & Deployment | Jest, Mocha, Chai, Artillery, AWS (EC2)
Developer Tools | Git, npm, Babel, Webpack, Agile Methodology, Postman, Thunder Client

PROJECTS

Merge | personalized medical records mobile app
Javascript, React, Express, PostgreSQL, Sequelize
- Developed a full-stack CRUD application using React Native that allows users to store medical records in one place
- Integrated Firebase authentication to implement user login and sign up

Fuzzy Friends | social networking app for pet owners | UI Design Lead
Javascript, React, Typescript, Express, MongoDB, Tailwind CSS, Vite, CircleCI, Auth0
- Architected a real-time chat component, enabling users to interact with their matches and view their matches' profiles
- Coordinated with 6 other full stack engineers to connect the front end functionality to the corresponding routes after building the database using MongoDB
- Created wireframes and built templated UI stylings for reusability and consistency across the application

Orchid | ecommerce website with focus on user interface
Javascript, React, CSS, Styled-Components, Express, Axios, AWS
- Programmed the frontend to display a related products list, outfit list, product cards in carousel display, and comparison modal window using React and CSS
- Built a local storage to persist data for the user-customized outfit list
- Implemented a RESTful API backend along with an Express server and deployed an AWS EC2 instance

Orchid | ecommerce website with focus on system design
React, PostgreSQL, Sequelize, Artillery.io
- Designed a relational database using PostgreSQL and utilized Sequelize to create queries based on data structure
- Rebuilt backend to handle traffic by indexing and optimizing all queries, resulting in an average response time of 1 ms
- Conducted stress testing of all defined API routes using Artillery and handled load capacity up to 1000 requests per second

EXPERIENCES

High School Mathematics Teacher & Algebra 2 Team Lead   August 2019 – July 2022
Newman Smith High School, Carrollton - Farmers Branch ISD   Carrollton, TX
- Instructed Algebra 1, Algebra 2, and Pre-AP Algebra 2 aligned with the state curriculum standards to 170+ students per year
- Utilized student assessment data to prepare differentiated lesson plans, increasing average student achievement level from 48% to 85%
- Supervised 4 mathematics teachers and supported them in adapting curriculum to online and hybrid learning platforms during the COVID-19 pandemic
- Served as the scholarship committee reviewer for CFBISD Educational Foundation, awarding 3 scholarships to academically and financially qualified high school seniors in May 2021

SAT Instructor & Curriculum Writer   March 2018 – August 2018
Ivy Elite Academy   Austin, TX
- Developed the 8-week summer SAT boot camp curriculum, resulting in 32 students enhancing their SAT score with an increase of a minimum 150 points per section
- Held 1:1 college counseling sessions on a weekly basis to assist 8 high school seniors with the college application process

Front Desk Medical Assistant   June 2016 – December 2017
Central Austin Family Medicine   Austin, TX
- Informed patients regarding their lab results and called in prescriptions to pharmacies under the physician's supervision
- Collected payments from patients, processed patient insurance and referrals, and ran daily transaction reports