

SARA KIM

Software Engineer | Dallas, TX (*willing to relocate*) | (469) 569-6591
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TECHNICAL SKILLS

Languages | Javascript (ES5 & ES6), TypeScript, HTML, CSS, SQL

Front End | React, React Native, Tailwind, Styled-Components, jQuery

Back End | Node.js, Express.js, Axios, MySQL, SQLite, PostgreSQL, MongoDB, Sequelize, REST API, Firebase, Auth0

Testing & Deployment | Jest, Mocha, Chai, Artillery, AWS

Other | Git, npm, Babel, Webpack, Agile Methodology

SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

Merge | **personalized health records mobile app**

January 2023

Full Stack Software Engineer

- Developed a full stack CRUD application with React Native, allowing 3,000 daily active users to self-organize and maintain up-to-date health records stored in a PostgreSQL database
- Integrated a secure authentication system using Firebase that strengthens privacy and improves the sign-in and sign-up experience for end users by enabling up to 100 new account creations/IP address/hr and up to 10 account deletions/sec

Fuzzy Friends | **social networking app for pet owners**

January 2023

Full Stack Software Engineer and UI Design Lead

- Managed 6 full stack engineers to design the login page, discovery mode, user profile, friend list, chat feature, and play date scheduling system based on wireframes and agile methodology
- Architected a real-time chat component, enabling users to interact with their matches and view their matches' profiles
- Created 100% of the wireframes based on business requirements and templated UI stylings improving the reusability and consistency across the application

Orchid | **ecommerce website using mock API of products**

November 2022 – December 2022

Front End Engineer

- Leveraged React to display a related products list, outfit list, product cards in carousel display, and comparison modal window
- Built a JavaScript local storage to persist client-side data for the user-customized outfit list
- Implemented a RESTful API backend using an Express server deployed on an AWS EC2 instance

Back End Engineer

- Performed an ETL process to transfer the full application data set into a relational database designed with PostgreSQL and consequently wrote queries by utilizing Sequelize
- Engineered 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 1,000 requests per second

WORK EXPERIENCE

Newman Smith High School, Carrollton - Farmers Branch ISD | Carrollton, TX

August 2019 – July 2022

High School Mathematics Teacher & Algebra 2 Team Lead

- Developed a year-long Algebra 2 online curriculum by creating an interactive classroom webpage utilizing Canvas, Desmos, HTML, and CSS which increased student engagement and productivity by 95%
- Instructed Algebra 1, Algebra 2, and Pre-AP Algebra 2 aligned with the state curriculum standards to 170+ students per year
- Collaborated with department chairs to update the school standardized test curriculum resulting with a 20% increase of the school 2022 SAT score and 70% increase of the Algebra 1 STAAR test score
- Supervised and supported 4 math teachers in adapting to online and hybrid curriculum during the COVID-19 pandemic
- Selected 3 academically and financially qualified high school seniors for the CFBISD Educational Foundation scholarships

Ivy Elite Academy | Austin, TX

March 2018 – August 2018

SAT Instructor & Curriculum Writer

- Developed and led the summer SAT boot camp curriculum, resulting in 32 students maximizing their SAT score by a minimum 150 points per section within 8 weeks
- Mentored 8 high school seniors with the college application process through weekly 1:1 college counseling sessions

EDUCATION

Hack Reactor

Advanced Software Engineering Certificate

January 2023

Texas Teachers

Full Tuition Scholarship Recipient

May 2019

The University of Texas at Austin

Texas Educator Certification (Mathematics 7-12)

Bachelor of Science & Arts in Biochemistry

May 2018

Minor in Spanish, Business Foundation Certificate