

# SARA KIM

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

**Front End** | JavaScript (ES5 & ES6), TypeScript, React, React Native, HTML/CSS, Tailwind, Styled-Components, jQuery

**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, Bash, Postman, Thunder Client

## 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**

- 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 current school curriculum resulting with a 20% increase of the school 2022 SAT score and 70% increase of the Algebra 1 state standardized exam score
- 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

**Ivy Elite Academy | Austin, TX**

March 2018 – August 2018

**SAT Instructor & Curriculum Writer**

- Developed and led the 8-week 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

Texas Educator Certification (Mathematics 7-12)

May 2019

**The University of Texas at Austin**

Bachelor of Science & Arts in Biochemistry

May 2018

Minor in Spanish; Business Foundation Certificate