

# Nathan Pak

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## Summary

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Software developer with 1 year of experience developing and deploying full stack web applications. Proficient with technologies including React, Node and Typescript.

## Skills

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**Languages:** Typescript, Javascript, Java, HTML, CSS

**Frameworks:** React, Node.js, Next.js, Express.js

**Databases:** MongoDB, PostgreSQL

**Tools:** Git, Webpack, Babel

## Projects

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**Momble:** *A full-stack web application that gamifies English language learning*

- Developed backend logic and frontend UI for a fully functional educational game.
- Enabled real-time multiplayer interaction via WebSocket protocol.

**MathLibz:** *A full-stack web application that formulaically generates math problems*

- Implemented authentication into 7 actions allowing users to securely create and utilize accounts.
- Built a RESTful API that generates math problems according to user settings.
- Managed state data via React Context to store user session info, UI theme selection, etc.

**Trello Clone:** *A full-stack web application for workflow management*

- Led the successful development of a Trello clone by serving as the front end lead in a team of 5 people spread across 2 time zones.
- Implemented an additional method of creating and editing user tasks, saving two clicks per action and reducing the number of elements to be rendered.
- Resolved errors retrieving data from the MongoDB database by fixing 7 endpoints in the API backend built on Node and Express.

## Work Experience

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**Monte Vista Christian - High School Math Teacher**

August 2021 - June 2022

- Reduced grading times from 2-3 days to 2 hours by digitizing assessments with Javascript.
- Mentored 2 students throughout the creation of exemplary personal projects, including a solar-powered computer and a Roblox server.

**New Vision Church - Turkiye Missionary**

July 2019 - June 2021

- Taught English/Music to 7 students whose primary languages included English, Korean or Turkish.
- Achieved independent proficiency in Turkish, marked by a B2 level certification.

## Education

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**Parsity Coding School**

Certificate of Graduation | December 2022

**University of California, Santa Cruz**

B.A. Mathematics | Class of 2018