

MENGTING YAO

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I am a results-driven full-stack developer with one year of experience, specializing in React, TypeScript, Next.js, Node.js, and GraphQL, with expertise in AWS services, who independently delivered a full-stack MVP in 3 months securing \$35,000 investment.

SKILLS

- Language: JavaScript, TypeScript
- Front-end: React, Next.js, Chakra UI, HTML5, CSS3
- Back-end: RESTful API, GraphQL, Node.js, JWT, OAuth
- Database: MySQL, PostgreSQL, MongoDB
- AWS Cloud: Lambda, S3, DynamoDB, CloudFront, Amplify, AppSync, Cognito, CloudFormation
- Testing: Vitest, JUnit, React Testing library, Mock Service Worker
- Tools: GitHub, Docker, Asana, Figma
- Certification: AWS Certified Cloud Practitioner

WORK EXPERIENCE

Founding Software Engineer, CavnessHR

Jul 2023 — Present

Product Development and Implementation

- Independently developed a full-stack solution using React.js, TypeScript, Next.js, GraphQL, and Node.js, integrating AWS services to deliver a functional MVP in 3 months, securing a \$35,000 angel investment and validating the product with potential customers.
- Led the design and implementation of a GraphQL schema using AWS AppSync, writing custom resolvers to enhance data management, extending capabilities beyond traditional RESTful APIs.
- Developed internal signature features for onboarding documents, eliminating third-party libraries and ensuring document safety, saving the company \$3000 in licensing fees.
- Automated the generation of offer letters, employee handbooks, and HR policies by creating dynamic questionnaires, expanding this feature to comply with varying state laws across the US.
- Designed and implemented a new user flow in 2 months, supporting 20+ new client companies and increasing new hire onboarding speed by 70%.

Performance Optimization and Code Quality

- Implemented performance optimization techniques in React using memo, useMemo, useCallback, Suspense, lazy loading, and utilizing the Profiler, which reduced load time by 40% and minimized unnecessary re-renders.
- Created custom hooks like useEmployees and useEmployeeDocuments to encapsulate common logic, making reusable components and cleaner code.
- Achieved a 35% reduction in code complexity by leveraging reusable components, which also facilitated a 50% increase in development speed.

Collaboration and Customer Engagement

- Collaborated with a UI/UX designer to transform Figma designs into responsive web, iPad, and mobile UIs using React, Next.js, and Chakra UI.
- Engaged with client companies to track feedback, adopting a customer-first mindset and iteratively improving the product based on client input, increasing client retention by 20%.

Cloud Services and DevOps

- Utilized AWS DynamoDB for robust data handling and AWS S3 for scalable file storage, further refining our cloud-based API design and storage solutions.
- Used AWS Cognito for authentication and role-based authorization, implementing secure access control for super admins, admins, employers, employees, and contractors.
- Managed AWS CloudFormation for infrastructure deployment and used AWS Amplify for the CI/CD pipeline, employing CloudFront to boost global content delivery, thereby enhancing the company's DevOps practices and improving operational efficiency and system reliability.

Testing and Project Management

- Specified testing strategies by using JUnit and React Testing Library for unit testing and Mock Service Worker for API mocking.
- Utilized Git/GitHub for robust version control, adopted Agile Scrum practices for team collaboration, and managed projects with Asana for enhanced coordination.

EDUCATION

Maharishi International University, Iowa, US

Aug 2021—July 2023

Master's in Computer Science, GPA: 3.86/4.00