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# Haohai Deng

## Senior Full Stack Developer

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### SUMMARY

Senior full-stack developer with expertise in front-end and back-end technologies, specializing in building scalable web applications. Experienced in leading development teams, implementing microservice architectures, and optimizing system performance. Passionate about problem-solving, agile development, and creating seamless user experiences through modern frameworks and cloud services.

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### EXPERIENCE

#### **MindSea**, Halifax, NS, Canada — *Senior Full Stack Developer*

April 2024 – Present

- Lead front-end architecture setup for multiple projects, efficiently utilizing frameworks and integrating component libraries like Tailwind CSS and ShadCN for streamlined UI development.
- Collaborate closely with the backend team to design and refine data models, actively contributing to backend function development.
- Provide technical guidance across various project teams, troubleshooting complex issues and ensuring smooth implementation of critical features.

#### **Zmley Inc.**, Halifax, NS, Canada — *Senior Web Developer/Tech Lead*

June 2019 – June 2023

- Led development teams in building high-performance web applications with ReactJS, TypeScript, Next.js, and other trendy web stack.
- Managed and coordinated the development team to ensure smooth task execution and efficient collaboration. Oversaw pull request transitions and code reviews, maintaining high code quality and development standards.
- Led the team in delivering multiple e-commerce projects, optimizing checkout flows, and integrating third-party services like DatoCMS, Stripe, and Auth0 to enhance functionality and user experience.

#### **Mathison Technology Inc.**, Remote — *Intermediate Frontend Engineer*

June 2021 – June 2022

- Collaborated with the development team to build a ripe frontend architecture with React, TypeScript, Material UI.
- Led the team in pioneering microservice architecture, successfully migrating systems, and implementing it across the company to enhance development collaboration and scalability.

- Created custom shared components across projects, such as DatePicker, Rich Text Editor, and Photo Gallery and released in NPM.

## Hundsun, Hangzhou, Zhejiang, China — Junior Frontend Developer (Internship)

April 2018 – August 2018

- Worked with senior developers to manage projects using MVC concepts.
  - Specialized in banking/financial business logic and E-commerce functionality.
  - Earned a "Great" rating in the final performance evaluation.
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## EDUCATION

### Center For Digital Media, Vancouver – Master's Degree

2024 – 2026

Master's degree of Digital Media, Collaboration of SFU, UBC, ECUAD, BCIT

### Dalhousie University, Halifax — Bachelor's Degree

2014 – 2018

Bachelor's degree of Computer science, with certificate of AI specialization.

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## PROJECTS

### CrimsonZip — Full stack developer

*CrimsonZip is a multi-platform project consisting of a **React Native (Expo) mobile app**, an **admin dashboard built with Refine**, and a **Deno + Supabase backend**.*

- Developed features related to **group member management**, enabling smooth user interactions and role-based access.
- Implemented **push notification functionality**, ensuring timely updates and engagement.
- Designed and developed **CRUD operations** for all tables, improving data management efficiency.
- Developed **cron jobs** for automated tasks and scheduling.
- Built and optimized **goal-related functions**, ensuring seamless backend logic and data processing.

### Mathison.io — Frontend engineer

- Collaborated with the project team (Product Managers, Designers and Developers) to build web portals and maintain an npm package.
- Led the team in exploring microservice architecture and successfully implementing deployment and migration based on Qiankun.
- Drove best implementation for UI & UX across development and design departments.

### VBangV Wechat Mini Program— Full stack developer

- Spearheaded the creation of a Mini-Program framework on the WeChat platform, laying a strong groundwork for future advancements.

- Independently accomplished a one-month project for the second phase of the renovation, greatly improving both security and performance features.
- Led the integration and sequelization of PostgreSQL, optimizing database interactions for improved efficiency.
- Developed a comprehensive multi-currency payment system, integrating WeChat Pay and Stripe to facilitate seamless and secure user transactions.

**Canadian Fertility & Andrology Society** — *Freelance photographer*  
**Halifax Blue Nose Marathon** — *Freelance photographer & Volunteer*

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SKILLS

Frontend	Backend	Cloud Services	DevOps & Tools
TypeScript	Node.js	AWS EC2	Docker
React.js	Supabase	AWS Amplify	Github
Next.js	GraphQL	AWS S3	Jira
React Native	PostgreSQL	AWS LightSail	Trello
Expo	RESTful API	AWS Route 53	Wordpress
Tailwind	PHP		Adobe Photoshop
	MongoDB		