

# DAHLIA MAI DINH

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## Skills

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- **Languages & Frameworks:** JavaScript | TypeScript | HTML | CSS | React | Redux | Node.js | Express | Next.js | GraphQL | Jest | React Graph Vis | Tailwind CSS | Material UI | Framer Motion | Sass | Chart.js | Electron | Vite | Agile Methodologies
- **Technologies & Platforms:** MongoDB | APIs | Git | GitHub | Webpack | SQL (PostgreSQL) | Docker | Kubernetes | AWS (EC2, EKS) | WebSockets | CI/CD | Bcrypt | OAuth | Prometheus | Grafana | Vercel

## Experience

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### Full-Stack Software Engineer

#### Kube VX

2023 - Present

- Developed an Observability Platform for analyzing **Kubernetes** clusters by implementing **Prometheus**, **Grafana**, and **Chart.js**, providing users with intuitive metric visualization through clear charts, eliminating the need for complex command-line tools.
- Employed **React**, **Redux**, and **Material UI** to improve project efficiency, reducing rendering complexities and enhancing data management, achieving a 20% improvement in page loading times.
- Utilized **Node.js**, **Express**, and **Prometheus** to develop the Email Notification Platform, allowing SRE teams to configure custom metrics to indicate critical system outages and receive email notifications in such events.
- Improved scalability by leveraging MongoDB's low-latency queries for efficient performance and accommodated growing data demands.
- Engineered the **AI Kubernetes Assistant**, achieving a 95% accuracy rate in initial testing by leveraging Node.js to integrate with our REST Third Party Integration System for infrastructure analysis.
- Incorporated third-party encryption libraries, cookie authentication, and Google **OAuth** to ensure the security of sensitive user data.
- Integrated **Chart.js** for its responsiveness and diverse chart types, enabling users to personalize charts by selecting from a query list with over 300 options.
- Leveraged node-cmd to fetch and generate user-friendly activity logs, enabling users to analyze clusters 15% faster.

### Business Development | Office Manager

#### Endevio

09/2020 - 02/2023

- Led cross-functional teams, improving project delivery by 20% and enhancing inter-departmental communication by 15%, as evaluated through KPIs.
- Introduced and integrated technology tools (Jira, HubSpot, ClickUp, Clockify, Payhawk, Shireburn, ERP) to enhance team efficiency and project management, aligning with Scrum and Agile methodologies, fostering a 16% increase in productivity.
- Increased revenue by 12% through strategic partnerships and strong client relationships, as indicated in the annual ROI report.

## Projects

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### Software Engineer

#### Cerebella - AI Tutor App

- Implemented a backend server with **Node.js/Express** to seamlessly integrate with OpenAI API, utilizing its asynchronous and lightweight architecture for efficient data retrieval and processing, ensuring swift and responsive interactions with the AI tutor.
- Designed a user-friendly single-page application with React and **React Router**, enabling smooth navigation within the AI tutoring app, eliminating page refreshes, and facilitating easy exploration between features such as a live chat room, study calendar, and study tracker.

### Software Engineer

#### Meow Match - Pet Adoption Platform

- Conducted unit testing using **Jest** for backend and **React Testing Library** for frontend validation to ensure repeatable, guaranteed behavior of components and routes for a consistent user interface.
- Used **Webpack** for efficient bundling and dependency management, optimizing application performance and simplifying deployment.

### Software Engineer

#### Rendez View - Meeting Planner

- Developed, and maintained code for the website primarily using **HTML**, **CSS**, **Sass**, **JavaScript**, and **jQuery**.
- Implemented **PostgreSQL** for the app's backend, efficiently managing event, organizer, and invitee availability relationships through an SQL database for streamlined coordination and improved user experience.

## Education

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- **Advanced Residency for Software Engineering** | Codesmith
- **Bachelor's Degree** | National Economics University
- **Relevant Coursework/Certifications:** Front End Development Libraries, Responsive Web Design, Javascript Algorithms and Data Structure, Content-Led SEO.

## Talks/Publications

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- **Tech talk:** Continuous Integration and Deployment (CI/CD), 2023
- **Medium article:** [KubeVX: An Intuitive Kubernetes DevTool](#)