DAHLIA MAI DINH

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Skills

- **Strong:** JavaScript | TypeScript | HTML | CSS | React | Redux | Node | Express | NoSQL(MongoDB) | Git | Webpack | Agile Methodologies
- **Experienced:** Next.js | SQL(PostgreSQL) | Docker | Kubernetes | AWS(EC2, EKS) | GraphQL | Jest | React Graph Vis | Node cmd | Tailwind CSS | Material UI | Framer Motion | Sass | Chart.js | WebSockets | CI/CD | Electron | Bcrypt | OAuth | Prometheus | Grafana | Open AI API
- Frontend | Backend | Full-Stack | English, Vietnamese – *All professional proficiency or above* | German - *Intermediate*

Experience

Full-Stack Software Engineer — Kube VX — *Los Angeles, CA, USA* — **2023 - Present**

- Enhanced **Kubernetes** cluster analysis by implementing Prometheus, Grafana, and Chart.js, providing users with intuitive metric visualization through clear charts and visuals, 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 **Express** for efficiently handling HTTP requests, and employed **Node.js** for server-side processes, capitalizing on its event-driven architecture, resulting in enhanced scalability and streamlined operations in the Kubernetes visualizer tool.
- Achieved instant response time and optimized data storage by leveraging **MongoDB**'s robust query capabilities.
- Integrated the Kubernetes Client Node library to interact with the Kubernetes cluster and utilized React Graph Vis to represent component relationships visually, leveraging their ease of compatibility to create appropriate graphics while minimizing development time.
- Engineered an **AI** assistant achieving a 95% accuracy rate using **jQuery** to process data efficiently, optimizing information summarization for Kubernetes clusters and markedly enhancing user experience.
- Developed Bcrypt, cookie-based authentication, and Google **OAuth** sign-in for enhanced user convenience and security.
- Incorporated **Chart.js** and Node-fetch, enabling users to personalize charts by selecting queries retrieved from Prometheus.
- Leveraged node-cmd to fetch and generate user-friendly Kubernetes cluster logs, enabling developers to analyze clusters 15% faster.

Business Development | Administrative Manager — **Endevio - Sanrimjohap** — *Malta* — **09/2020 - 02/2023**

- Introduced and integrated vital 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.
- Boosted revenue by 12% by initiating strategic partnerships and cultivating strong client relationships.
- Led end-to-end recruitment processes and effectively managed staff benefit programs, yielding a 15% increase in employee satisfaction.

Projects

Software Engineer — **Cerebella - AI Tutor App** — **2023**

- Implemented a backend server with **Node.js/Express** to seamlessly integrate APIs with OpenAI, 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** — **2023**

- Conducted comprehensive 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, optimization, streamlined project management, automating tasks, and improving asset organization.

Software Engineer — **Rendez View - Meeting Planner** — **2023**

- Implemented **PostgreSQL** for the app's backend, efficiently managing event, organizer, and invitee availability relationships through a robust SQL database for streamlined coordination and improved user experience.

Software Engineer — dahliamai.com — **2023**

- Deployed a web application using React, **Next.js**, **TypeScript**, and **Tailwind CSS**, resulting in an 80% increase in user engagement.

Education

- **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

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