Adrian Liu

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SUMMARY

Experienced Full Stack Developer with over 10 years of expertise in building scalable, high-performance web applications. Skilled in technologies such as **React**, **Node.js**, **Next.js**, **TypeScript**, **Python** and **cloud platforms like AWS**. Expertise in **RESTful APIs**, **database optimization**, and **improving system performance**. Passionate about problem-solving and creating innovative solutions to enhance user experience and operational efficiency.

EXPERIENCE

KPH Healthcare Services | East Syracuse, NY, United States – *Senior Full Stack Developer*
www.kphhealthcareservices.com
09/2022 – 10/2024

- Led the design and implementation of a patient management system used by **23 healthcare departments**, improving data entry speed, appointment scheduling, and communication efficiency, resulting in improvement **from 27 to 18 minutes** by **September 15th 2024** in overall process speed.

- Integrated **React.js** and **Django** to create a dynamic, user-friendly interface, ensuring seamless functionality for **320+ healthcare professionals**.

- Used **MongoDB** to build a highly scalable database capable of storing and managing **over 230,000 patient records** by **October 2024**, providing a flexible and secure solution for long-term data storage.

- Implemented **JWT** and **OAuth 2.0** for secure authentication, ensuring compliance with healthcare standards such as **HIPAA**. The enhanced security measures contributed to a **100% success rate** in passing security audits by June 2023.

- Developed and integrated **real-time notifications using WebSockets**, allowing healthcare professionals to receive instant updates on patient conditions, lab results, and appointment changes. This improvement reduced response times by **20%** and enhanced care quality.

- Optimized system performance by incorporating **Next.js** for **server-side rendering (SSR)**, which improved load times by **50%** and boosted **Google Lighthouse scores** to **87** for performance by **17th August 2024**, accessibility, and SEO.

- Streamlined **CI/CD pipeline automation** using **Jenkins**, reducing deployment time by **40%** and ensuring smooth rollouts of new features and updates.

- Ensured the platform's scalability by using **Docker** and **Kubernetes** for containerization, which simplified the management of microservices and improved system availability.

- Conducted regular **code reviews**, enforced best practices, and ensured that unit tests were covered using **Jest** and **React Testing Library**, achieving a **98% test pass rate** for frontend components.

Colizey | Paris, France – *Full Stack Developer*
www.cathayinnovation.com
07/2019 – 08/2022

- Developed **an e-commerce platform** for a major retail company, handling **175000+ customers** by July, 2022 and enabling real-time order tracking, payments, and inventory management. This system streamlined order processing by **13%** and increased operational efficiency.

- Used **React.js** for the frontend and **Node.js** for the backend, ensuring fast and responsive user interactions for shopping experiences.

- Implemented **GraphQL** for API communication, reducing the number of server calls by **28%** and improving data fetching efficiency.

- Achieved improvement **from 5.2 seconds to 2.3 seconds** in frontend performance by implementing **lazy loading**, **code splitting**, and optimizing image handling techniques.

- Built scalable backend services using **Docker** and **Kubernetes**, enabling the application to handle high traffic loads without downtime. The infrastructure optimization resulted in a **99.99% uptime** across the platform.

- Integrated third-party services for secure payment transactions, which resulted in a **10% increase** by **August, 2021** in payment reliability.

- Enhanced platform security by implementing **SSL encryption**, **two-factor authentication**, and **role-based access controls**, significantly reducing unauthorized access incidents by **40%**.

- Leveraged **AWS** for cloud hosting, which reduced hosting costs by **20%** while ensuring fast and scalable infrastructure for handling peak usage periods.

- Enhanced the user interface in collaboration with UX/UI designers, increasing customer engagement by **18%** through improved navigation and overall site experience.

Cobblestone Learning | London, United Kingdom – *Full-Stack Developer*
www.cobblestonelearning.com
08/2016 – 06/2019

- Developed and maintained a **Learning Management System (LMS)** that saw an increase in active users by **25%** over two years, providing a seamless experience for over **37,000+ students**.

- Implemented **Next.js** for server-side rendering, resulting in **improved SEO rankings from rank 50+ to top 20** by **December 2018**, driving more organic traffic to the platform.

- Designed and built highly scalable, SEO-friendly pages using **React** and **Next.js**, increasing page load speeds and reducing bounce rates by **15%**.

- Integrated **GraphQL** to optimize data-fetching strategies, reducing API call latency by **20%** and improving platform responsiveness.

- Enhanced the system's authentication workflows with **JWT**, enabling a secure and efficient login process for instructors and learners, cutting down login times by **4 seconds to under 1 second**.

- Deployed the application on **AWS**, which resulted in a **30% reduction** in hosting costs while ensuring high availability and scalability.

- Worked with UX/UI designers to refine the user experience, increasing user retention by **20%** through intuitive design and better navigation.

GECKO Governance | Dundalk, County Louth, Ireland – *Junior Software Engineer*
www.geckogovernance.io
08/2014 – 07/2016

- Developed **a real-time data analytics platform** for **50+ financial institutions**, improving risk analysis and trading performance insights.

- Created interactive **data visualizations** using **D3.js** and **Chart.js**, enabling clients to monitor financial data with the **increase from 73.5% to 92.3%** in reporting accuracy by February, 2016.

- Utilized **Node.js** for backend development, integrating external data sources and ensuring smooth real-time data processing.

- Reduced database query times by optimizing the performance of the platform's **MongoDB** and **Redis** databases.

- Wrote comprehensive unit and integration tests with **Jest** and **Mocha**, achieving consistent platform performance and reducing bugs by **20%**.

EDUCATION

Bachelor's degree: **Computer Science**   **06/2010 – 06/2014**

University of Edinburgh, Edinburgh, Scotland

SKILLS

- **Programming Languages**

  JavaScript, Typescript, HTML5, CSS, SQL, Python

- **Frontend Frameworks and Libraries**

  React, Next.js, Vue.js, Angular, Django, Svelte, Ext JS, Stencil.js, React Hooks, React Router, Redux, Redux-Saga, Zustand, Context API, React Query, MobX, Recoil, React native

- **Backend Technologies**

  Node.js, Express, REST API, GraphQL, Apollo Client, Axios, WebSocket, Strapi

- **UI Frameworks and Styling**

  Material UI, Bootstrap, Tailwind CSS, Ant Design, SASS/SCSS, LESS, styled-components

- **Databases**

  MongoDB, PostgreSQL, AWS (DynamoDB), MySQL

- **Testing and Quality Assurance**

  Jest, Enzyme, React Testing Library, Cypress

- **Tools**

  Git, GitHub, GitLab, Docker, Kubernetes, JIRA, Confluence, Slack, Zoom, Figma, Adobe XD, Storybook, Babel JS, Webpack, NPM

- **Cloud Service**

  AWS (ECS, Lambda, DynamoDB, S3 and IAM), GCP, Azure

- **Others**

  Problem-Solving, Communication

PORTFOLIO

www.adrian-liu.vercel.com