

Austin Wang

Full Stack Developer || 689-258-5152 || [My Portfolio](#) || austinwang577@gmail.com

SUMMARY

- **Over 5+ years** of experience in architecting and developing scalable e-commerce platforms and collaborative suites using **React**, **Next.js**, **Node.js**, and **Angular**.
- Proficient in designing user-centric UI/UX utilizing frameworks like **Bootstrap**, **Tailwind CSS**, and **Material UI**.
- Demonstrated ability in integrating and optimizing **RESTful APIs** and **GraphQL** endpoints, with a strong focus on enhancing platform performance and user engagement.
- Expertise in implementing state management solutions using **Redux** and building real-time applications using **WebSockets** and **Meteor**.
- Skilled in cloud infrastructure, particularly within the **AWS** ecosystem, leveraging services like **AWS Lambda**, **EKS**, and **EC2** for scalable and cost-effective solutions.
- Strong background in both **SQL** (e.g., **MySQL**, **PostgreSQL**) and **NoSQL** (e.g., **MongoDB**) databases, optimizing queries, and ensuring data integrity.
- Advocate for containerization and orchestration, with hands-on experience using **Docker** and **Kubernetes** for consistent development-to-production transitions.
- Proficient in streamlining deployments and automating workflows using CI/CD tools such as **Jenkins** and **GitHub Actions**.
- Dedicated to code quality and application security, implementing best practices with **JWT** for authentication, and utilizing testing tools like **Jest**, **React Testing Library**, and **Enzyme**.
- Experienced in real-time geospatial tracking integrations and maximizing application responsiveness under load using caching tools like **Redis**.
- Strong believer in agile methodologies, regularly participating in ceremonies including sprint planning, retrospectives, and daily stand-ups.
- Proactive in fostering collaborations with cross-functional teams and stakeholders, ensuring successful, on-time project completions aligned with business objectives.

SKILLS

- **Frontend:** React, Next.js, Angular, Material UI, Bootstrap, Tailwind CSS
- **Backend:** Node.js, Express.js, Meteor
- **State Management:** Redux, GraphQL
- **Database Management:** MySQL, MongoDB, PostgreSQL, Redis
- **Cloud Infrastructure:** AWS Lambda, AWS EKS, AWS EC2, Elastic Beanstalk
- **Containerization & Orchestration:** Docker, Kubernetes

- **API Development & Integration:** RESTful APIs, GraphQL, WebSockets
- **Security:** JWT, Bcrypt
- **Testing:** Jest, React Testing Library, Enzyme, Cypress
- **CI/CD:** Jenkins, GitHub Actions
- **Performance Monitoring:** Grafana
- **Real-time Collaboration:** Meteor, WebSockets
- **Translation & Internationalization:** i18n
- **Workflow Tools:** ESLint, Prettier, Webpack

WORK EXPERIENCE

Wayfair | Boston, MA | Senior Full-Stack Developer | Jun 2022 – Jun 2023

Project Name: Enhanced E-commerce Experience

Project Detail: Participated in the redesign of Wayfair's e-commerce platform, emphasizing a user-centric design, enhanced performance, and tighter integration with backend systems. Collaborated with cross-functional teams to identify areas for improvement, implement best practices, and integrate cutting-edge frontend and backend technologies.

- Architected scalable solutions, embracing the power of microservices, to ensure high availability and responsiveness of the platform.
- Streamlined UI/UX, using React and Next.js, enhancing user journey, reducing bounce rate, and increasing overall user retention.
- Optimized the application's state management with Redux, incorporating middleware solutions for asynchronous operations.
- Leveraged advanced SCSS techniques and frameworks like Bootstrap and Tailwind CSS to ensure a consistent and intuitive design across devices.
- Enhanced data-driven components using GraphQL, ensuring efficient data consumption and reducing over-fetching.
- Led migration efforts, transitioning legacy systems to serverless architectures using AWS Lambda and AWS EKS, resulting in a more cost-effective and scalable infrastructure.
- Ensured data integrity by establishing secure RESTful API endpoints with Express.js, incorporating JWT for authentication and authorization.
- Adopted Docker and Kubernetes for containerization and orchestration, respectively, facilitating smooth deployments and rollbacks.
- Utilized CI/CD pipelines, primarily through Jenkins, to automate testing, building, and deployment processes, minimizing human errors.
- Fostered an iterative development approach, emphasizing Test-Driven Development (TDD) using Jest, React Testing Library, and Enzyme.
- Enhanced data persistence layers, working with both SQL databases like MySQL and NoSQL databases such as MongoDB, optimizing database queries and schema design.

- Assured the application's responsiveness under load by implementing caching solutions using Redis, thereby reducing database load and speeding up retrieval times.
- Collaborated with cross-functional teams, emphasizing clear communication and understanding of both technical and business requirements, resulting in successful on-time project completions.

Environment: React, Next.js, Redux, SCSS, GraphQL, Node.js, Express, AWS Lambda, AWS EKS, Docker, Kubernetes, MySQL, MongoDB, Redis, JWT, Webpack, Jest, React Testing Library, Enzyme, Bootstrap, Tailwind CSS, Jenkins, CI/CD.

BPDA | Boston, MA | Full Stack Developer | Sep 2020 – May 2022

Project Name: Urban Street Management System

Project Detail: As a dedicated full-stack developer, my role encompassed both front-end and back-end development to support Boston's innovative street management solutions. This system was built to facilitate smoother urban planning and street management for Boston, providing real-time insights to street managers.

- Developed feature-rich web applications using React, focusing on hooks and context for state management, enhancing user interaction and application responsiveness.
- Extended Redux's capabilities to manage a centralized application state, ensuring sync across different components and efficient state updates.
- Adapted Tailwind CSS to craft intuitive and adaptive UI components, adhering to best practices for design consistency and cross-device compatibility.
- Engineered RESTful APIs with Node.js and Express, establishing a seamless data flow between front-end interfaces and the underlying databases.
- Employed MongoDB for optimal data management, utilizing mongoose for ORM capabilities and improving data schema designs.
- Maximized application performance by hosting it within AWS's ecosystem, leveraging services like EC2 for compute and Elastic Beanstalk for seamless deployment.
- Ensured tight security measures by integrating JWT and Bcrypt for both authentication and authorization, solidifying user trust.
- Dedicated efforts to achieve a high-quality codebase by enforcing Jest for comprehensive unit testing and using Cypress for vital end-to-end testing scenarios.
- Integrated sophisticated map visualization tools and third-party geolocation APIs, enhancing real-time geospatial tracking and reporting.
- Streamlined development workflow by incorporating GitHub Actions for CI/CD, automating build, test, and deployment tasks.
- Maintained codebase health by adhering to stringent review standards, and using automated linting and formatting tools like ESLint and Prettier.

- Actively participated in agile ceremonies including sprint planning, daily stand-ups, and retrospectives, ensuring efficient and iterative development cycles.
- Explored and introduced GraphQL as an alternative to REST, streamlining data requests and reducing over-fetching of data.
- Implemented caching mechanisms using Redis, reducing database calls and significantly speeding up frequent data retrieval operations.
- Interfaced with stakeholders and other tech teams, clarifying requirements and ensuring the application aligned well with user needs and expectations.
- Troubleshoot and resolved application bottlenecks by utilizing profiling tools and refining the codebase, achieving smoother user experiences.

Environment: React, Next.js, Redux, SCSS, GraphQL, Node.js, Express, AWS Lambda, AWS EKS, Docker, Kubernetes, MySQL, MongoDB, Redis, JWT, Webpack, Jest, React Testing Library, Enzyme, Bootstrap, Tailwind CSS, Jenkins, CI/CD.

BoardX | Remote | Full Stack Developer | Sep 2018 – May 2020

Project Name: Real-time Collaborative Office Suite

Project Detail: As a senior full-stack developer, I was involved in the seamless integration of front-end and back-end functionalities for the BoardX collaborative office suite. The platform facilitates real-time collaboration among users, with an emphasis on enhancing productivity and user engagement. Significant efforts were made to cater to a global audience, ensuring versatile language support and efficient real-time data synchronization.

- Conceived and developed feature-rich components using Meteor, Angular, and Material UI, ensuring responsiveness, high performance, and consistent user experience across devices.
- Refined the company homepage and its dynamic content by integrating the i18n library, enabling seamless language translation between English and Chinese, thereby widening its global outreach.
- Efficiently modeled real-time data in PostgreSQL, supporting instantaneous multi-user interactions and ensuring data consistency in the collaborative office feature.
- Architected and integrated a real-time mouse tracking mechanism using Angular, which elevated the platform's collaborative editing capabilities and user interactivity.
- Utilized WebSockets for immediate data push/pull, enhancing the real-time collaborative experience on the platform.
- Collaborated closely with junior developers, constantly assimilating fresh perspectives and advanced code optimization techniques, reinforcing the platform's efficiency and scalability.
- Engineered RESTful APIs using Express.js, ensuring smooth data flow between the frontend and the backend, optimizing server responses, and enabling feature extensions.

- Employed containerization tools like Docker to streamline deployment processes, thereby ensuring consistent environments from development to production.
- Optimized database queries and ensured ACID transactions in PostgreSQL, guaranteeing data reliability and performance in high concurrency scenarios.
- Strengthened application security through JWT-based authentication and role-based access control, safeguarding user data and company assets.
- Adopted CI/CD best practices using Jenkins, automating the deployment process and enhancing code quality through systematic testing and feedback loops.
- Proactively contributed to sprint planning and retrospectives, ensuring product deliverables align with business objectives and stakeholder expectations.
- Monitored application performance using tools like Grafana, identifying bottlenecks and ensuring optimal resource utilization.

Environment: Meteor, Angular, Material UI, PostgreSQL, WebSockets, Express.js, JWT, Docker, Jenkins, Grafana, i18n, Agile methodologies, RESTful APIs, Git, Continuous Integration, Continuous Deployment.

EDUCATION

Boston University

B.S. in Computer Science

Sep 2018 – May 2022