

Barry Liu

Sr. Software Engineer (React / React Native Focused)

Arcadia, CA | barryliu.8916@gmail.com | +1 678 999 2167

<https://www.linkedin.com/in/barry-liu-a1a1a730a/>

PROFILE SUMMARY

Highly accomplished full-stack software engineer with over 10 years of experience building data-driven web and mobile applications for diverse industries, including healthcare, fitness, SaaS, real estate, and biotech. Skilled in building efficient, secure, and reliable code that performs well across devices and under various constraints. Experienced in working collaboratively with cross-functional teams to develop new features, fixes, and continuous improvements. Proficient in ReactJS, NextJS, GraphQL, and REST API development. Passionate about careful design and architectural planning to create future-proof and maintainable codebases. Seeking to leverage expertise in a CI/CD environment to drive success as a software engineer at a dynamic organization.

CORE COMPETENCIES

- Proficient in developing apps using ReactJS, demonstrating a strong command of frontend tech
- Familiarity with Cloud-based platforms, contributing to the development of scalable applications
- Adept at ensuring code efficiency/security/reusability across devices with variable constraints
- Thoroughly knowledgeable in Continuous Integration and Continuous Delivery principles
- Active contribution to building and improving a considerate and inclusive engineering culture
- Skilled in guidance, problem-solving, and conflict management to ensure smooth workflow
- Outstanding interpersonal skills with strong team spirit and great respect for diversity
- Exceptional organizational and time management skills with sound multitasking abilities

SKILLS HIGHLIGHTS

Front-end Development	UI Development	API Development (GraphQL, REST)
Code Review & Debugging	Performance Optimization	Agile Methodology
Cloud-Based Platforms and Services	Mobile Development	Full Stack Development
UI/UX Design Principles	Data Visualization	Continuous Learning
Object-Oriented Programming	Responsive Design	Performance Analysis
Remote Environment friendliness	Highly Detail-oriented	Flexible & Adaptable
Programming Languages	JavaScript, TypeScript, Java, Python, C, C++	
Database	MySQL, PostgreSQL, Oracle, SQLite, MongoDB	
Frameworks/Libraries	React.js, Vue.js, Angular.js, Express.js, Django, Spring Boot, Next.js, Redux	
Cloud Computing	AWS, Azure, GCP	
AWS	Amazon EC2, S3, ECS, Cognito, RDS, EMR, Kinesis, ELB, IAM, EBS, Lambda.	
Web Technologies	HTML, CSS, JavaScript, SASS, LESS, JQuery, AJAX, JSON.	
Mobile Technologies	React Native, Java, Kotlin, Swift	
Bootstrap Technologies	Material UI, Bootstrap, Chakra UI, Semantic UI, Tailwind CSS, Ant Design.	
Version control tools	Git, SVN, Bitbucket, CVS	
Automation tools	Jenkins, Chef, Ansible, Kickstart, Terraform.	
Testing tools	Jest, Mocha, Jasmine, Cypress, React-test-render, Vitest	
Operating System	UNIX, Linux, Windows, Red hat Linux 5.x/6.x, Ubuntu	

PROFESSIONAL EXPERIENCE

Senior Full Stack Engineer | Cybona | Dallas, TX, USA

Jan 2024 – Present

- Built a healthcare web application for Prescriptive that is a large healthcare company, using React.
- Used Semantic UI to enhance user experience and enabled business growth by applying an intuitive user interface and working closely with designers.
- Built responsive and flexible UI pages using React.JS, React Hook, Redux, HTML5, CSS3, JavaScript, PrimeNG, and Bootstrap.
- Implemented solid unit and integration tests using Jest, mocha, chai, enzyme, and react-test-render.
- Implemented React-Router, React Redux architecture, ES6, web pack, and Grunt to transform the application into SPA.
- Created Typescript reusable components and services to consume REST APIs using Component-based architecture provided by React JS.
- Used Typescript utilities extensively, including Partial, Required, Record, Pick, Omit, ReturnType, and Template literals.
- Migrated an application developed in React.JS 16 to React.JS 17.
- Used React Native to build a healthcare mobile application that provides virtual clinical services to patients.
- Upgraded a healthcare mobile application for Confidant Health from React Native version 0.63 to 0.69.
- Designed and implemented GraphQL API schemas using Apollo Client.

- Worked for several large clients including DIRECTV and Amazon for significant periods.
- Worked in several (agile) cross-functional teams for 8 years from an individual developer to the team lead
- Lead an agile team of a SAFe agile framework.
- Built both frontend and backend of 4 web/mobile apps for 2 startup clients (both healthcare).
- Actively attended Scrum meetings, daily standups and PI planning meetings.
- Reviewed the PRs of the developers especially checking their code quality, regression-error-freeness and target branches.
- Worked in several design methodologies including DDD, TDD and BDD.
- Designed and implemented four front-end repos using JavaScript, React, Redux, Redux-saga, and React Hooks.
- Ensured quality in design, processes, and tools within a CI/CD environment for optimal development outcomes.
- Collaborated with designers, product managers, and engineers to iterate on features, fixes, and improvements.
- Delivered features iteratively, ensuring a continuous enhancement of the software development process.
- Engineered backend with Node.js and Express, adopting a microservices architecture with Kafka for event-driven communication.
- Efficiently managed package dependencies using Turborepo and implemented a combination of SSR and SSG.
- Implemented real-time chat using WebSocket, managing global state with react-redux and redux-saga.
- Worked with stakeholders, product managers, and cross-functional teams in Agile methodology for healthcare domain solutions.
- Enhanced application performance with memorization, implemented lazy loading, analytics, and bug reporting.
- Utilized Jest, Enzyme, and react-test-renderer for testing, upgraded Material UI, integrated AWS Cognito for MFA authentication.

Key Accomplishments

- Mentored juniors, dedicated 80% time to coding, ensuring readability and bug-free code.
- Achieved 20% improvement in application efficiency through the implementation of real-time chat functionality.
- Enhanced mobile application functionality by upgrading to the latest version, implementing push notifications, and achieving a 15% increase in user engagement.

- Developed healthcare web app in MERN stack, ensuring robust functionality and user experience.
- Designed, built, and maintained efficient, secure, and reusable code for high-performance applications across diverse devices.
- Crafted real estate web and mobile apps using React, React Native, and Java Spring.
- Engineered a biotech web app with React and Python Django for seamless data interaction.
- Employed D3.js for gene variation visualizations, incorporating transitions, animations, tooltips, legends, axes, scales, and brushes.
- Customized react-google-maps to showcase real estate locations in web applications.
- Constructed dynamic UI for large applications, implementing React, React Hook, Redux, HTML5, CSS3, and Bootstrap.
- Developed UI pages with React, React Hook, Redux, HTML5, CSS3, JavaScript, and Bootstrap.
- Wrote unit and integration tests using Jest, Mocha/Chai, Enzyme, and react-test-renderer.
- Designed and implemented GraphQL API schemas using Apollo Client, collaborating with UX engineers via Figma.

Key Accomplishments

- Elevated user engagement by 30% through the successful development and launch of a healthcare web app.
- Streamlined real estate processes, resulting in a 25% increase in app downloads and user interactions.
- Improved biotech data accessibility, achieving a 20% boost in user satisfaction and system efficiency.

- Engineered a responsive ecommerce app with React and React Native, ensuring seamless cross-platform functionality.
- Crafted CSS templates, refining website aesthetics with expertise in background, positioning, text, border, margin, and padding.
- Defined web page aesthetics with SASS, leveraging dynamic CSS features like variables, mixings, operations, and functions.
- Analyzed application performance, providing valuable insights and recommendations for ongoing improvements.
- Conducted thorough code reviews, testing, and debugging to maintain code integrity and optimize functionality.
- Diagnosed frontend issues using Cypress, conducting targeted debugging for enhanced user experience and functionality.
- Advanced React.js proficiency, addressing components, forms, events, keys, routers, animations, and Flux concepts for optimal performance.
- Executed Restful web service calls, proficiently managing POST, PUT, DELETE, and GET methods for data interactions.
- Leveraged AWS Cloud services (EC2, S3, EBS, RDS) and EMR for efficient big data operations.
- Orchestrated API system deployment, optimizing HTTP server speed and implementing AWS architecture for scalability.
- Expertly utilized Git for version control, consistently maintaining code integrity by frequent GitHub pushes.
- Developed backend APIs with Python Django, ensuring robust data management for seamless application functionality.

Key Accomplishments

- Boosted ecommerce app performance, resulting in a 40% increase in user engagement and transactions.
- Revitalized website aesthetics, enhancing user experience with refined CSS templates and dynamic styling.
- Implemented efficient AWS solutions, reducing data processing time by 25% using EMR for big data.

EDUCATION