

Jack Lyons

Senior Full Stack Engineer

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- Versatile Full-stack engineer with a strong focus on backend development with over 10 years of experience in product development from scratch, designing, enhancement/refactoring, managing legacy codebase, and maintaining robust and scalable web applications.
- Proficient in multiple technology stacks, including React.js, Node.js, Python Django, and React Native with a proven track record of delivering scalable and high-performance web applications.
- Passionate about staying up-to-date with the latest trends in the software engineering field and have a knack for quickly learning new technologies.
- Strong problem-solving abilities, effective collaboration in cross-functional teams, and a passion for staying up-to-date with the latest technologies. Familiarity with the remote work environment.

Work Experience

Senior Full Stack Engineer

Pearl Health

August 2021 to December 2023

- Participated in building web & mobile mental healthcare applications and played a key role in architecting and developing the whole application.
- Implemented responsive and pixel-perfect UIs by using React 18+ with TypeScript and React Native (Expo).
- Utilized React and its optimizing approaches like HOCs, and custom hooks, and followed best practices to enhance performance and reusability.
- Used Next.js framework leveraging its server-side rendering capabilities to enhance performance and SEO optimization.
- Utilized Node.js, and Django REST framework for building micro-service backend infrastructure, establishing the communication between the micro-services by using RabbitMQ.
- Successfully implemented real-time text and video chat application with AI integration using WebSocket, and WebRTC.
- Implemented data caching strategies using Redis, reducing page load times by 20% and enhancing overall website performance.
- Collaborated closely with the DevOps team to containerize applications using Docker and Kubernetes.
- Utilized several Amazon Web Services including AWS S3 to store large data, EC2 & Lambdas to set up micro-services architectures, AWS Amplify, Cognito, SNS, and DynamoDB.
- Used SQLAlchemy, a powerful and widely-used Object Relational Mapper (ORM) for Python, to interact with relational databases like MySQL, and PostgreSQL which are created in AWS RDS.
- Built GraphQL with Apollo Client/Server and React Query, to avoid over-fetching and under-fetching for the optimization of API requests.
- Used Jest, and react-test-render to unit and integration testing. Used Cypress for e2e testing.
- Mentored junior developers using diverse methods, including code reviews, pair programming, and knowledge-sharing sessions, to foster their professional growth.

- Participated in Agile ceremonies and worked closely with PMs to implement product features and further user engagement.

Senior Full Stack Engineer

Concentrix

September 2017 to July 2021

- Built a mental healthcare application that provides virtual clinical services for patients and doctors by using React.js, TypeScript, and backend REST APIs using Node.js, and Python Django.
- Migrated a Shopify e-commerce platform to a headless architecture, increasing page load times and conversion rates.
- Utilized React.js, Next.js, HTML, SCSS, Typescript, Tailwind for styling library, integrated GraphQL, Shopify, and Jest.
- Developed AI-powered prescription recommending system by developing machine learning models and data analysis using Pandas.
- Built CMS & Admin portals by using React, React Hooks, Styled-components, and Redux Toolkit and wrote effective test cases by using Jest and Cypress.
- Implemented data visualization for patient health records by using D3.js.
- Integrated a payment system using Stripe.- Integrated third-party APIs for scheduling events, notifications, prescriptions, and pharmacy data.
- Integrated Apollo GraphQL library on both client and server to increase the performance of APIs while avoiding over-fetching and under-fetching.
- Designed and maintained MySQL, PostgreSQL, and MongoDB databases for client projects, ensuring efficient data storage, retrieval, and manipulation.
- Used Postman to test RESTful APIs for HTTP requests such as GET, POST, and PUT.- Automated the deployment process using GitHub Actions, AWS ECS, and ECR.
- Collaborated with a team of 17 developers, following Agile methodologies, especially Scrum to deliver high-quality software solutions.

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Apple

June 2015 to August 2017

- Implemented React code to acquire cross-browser compatibility issues in Safari and Google Chrome.
- Implemented REST APIs using Node/Express.js.
- Optimized front-end loading time 22% faster using React lazy-loading, and React Context APIs and provided better performance by reducing unnecessary re-renders.
- Implemented user authentication and authorization mechanisms using Passport.js, enhancing data security and enabling role-based access control.
- Worked on React components, Forms, Events, Keys, Routers, Animations, and Flux concepts.
- Built healthcare mobile applications using React Native.
- Designed the web pages using HTML, XHTML, and CSS and deployed the script using JavaScript.
- Debugged the front-end issues using Cypress in the browser directly.
- Leveraged best principles for building websites and web apps.

Full Stack Engineer

Wantable

January 2013 to March 2015

- Developed a high-traffic marketplace for personalized and ready-to-wear products using PHP, Laravel, HTML, CSS, JavaScript, and jQuery.

- Worked with a team of designers to create and improve responsive and pixel-perfect UI/UX designs.
- Built out accessibility UI following WCAG and improving its usability to ensure any person can use it comfortably.
- Optimized the website performance and scalability to handle millions of users simultaneously.

Education

Bachelor's degree in Computer Science

University of Wisconsin-Green Bay

December 2008 to December 2012

Skills

- React
- Node.js
- Django
- React Native
- TypeScript
- Python
- GraphQL
- AWS
- SQL
- NoSQL
- Object-Oriented Programming (OOP)
- Project Design
- Problem Solving
- Teamwork
- Agile

Links

<https://linkedin.com/in/jack-l-00505237>