

Ernesto J Ballon

Full Stack JavaScript Engineer | **React.js** Specialist
with experience in **Java, Python and Go**

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Portfolio - <https://www.ernestojballon.com>

Professional Summary

Experienced **Full Stack JavaScript Engineer** with a strong focus on **React** and modern web technologies. Specializes in building scalable, responsive, and user-centric applications using cutting-edge frontend frameworks and backend technologies. Proven track record of delivering high-quality solutions in Agile environments, with expertise in microservices architecture and cloud technologies.

Technical Skills

- **Frontend:** **React**, Redux, Angular, Vue.js, TypeScript, HTML5, CSS3, Sass, Tailwind CSS
- **Backend:** Node.js, Express.js, GraphQL, RESTful APIs
- **State Management:** Redux, Zustand, React Query, NgRx
- **Testing:** Jest, React Testing Library, Cypress, TestDoubles, Sinon
- **Build Tools:** Webpack, Babel, npm, Yarn
- **UI/UX:** Responsive Design, Storybook, Figma
- **DevOps:** Docker, Kubernetes, AWS, Jenkins, Git, CI/CD
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Other:** Microservices, Agile/Scrum, WebSockets, Server-Side Rendering

Professional Experience

Lead Software Engineer at Comcast (via Accenture)

July 2022 - Present

- Architected and developed React frontends using Backend-for-Frontend (BFF) pattern with **Node.js**
- Implemented advanced state management using **Zustand** and efficient data fetching with **React Query**
- Utilized **Tailwind CSS** for responsive and maintainable styling
- Set up and optimized CI/CD pipelines using **GitHub Actions** and Concourse

- **Mentored** junior and senior developers in React best practices and modern JavaScript patterns
- Collaborated with Product Owners to translate business requirements into **technical solutions**
- Led the adoption of **microfrontends architecture** to improve scalability and team autonomy

Senior Software Engineer at ROSS stores (via Accenture)

January 2022 - July 2022

- Developed microfrontends using **Angular with single-spa** framework for a large-scale retail application
- Implemented **Storybook** for component-driven development and UI consistency across teams
- Created a shared state module using **NgRx** for seamless data flow between microfrontends
- Conducted comprehensive testing using **Cypress with Cucumber**, adhering to Domain-Driven Design principles
- Optimized **Jenkins pipelines** for efficient CI/CD processes, improving deployment frequency

Software Engineer at Caterpillar (via Accenture)

July 2021 - December 2021

- Engineered offline-capable solutions using **Electron, Angular, Node.js, and SQLite** for remote equipment monitoring
- Designed and implemented intuitive **Angular-based** user interfaces optimized for low-connectivity environments
- Developed cross-platform desktop applications using Electron, ensuring functionality in internet-limited areas
- Implemented local data storage and synchronization mechanisms using SQLite and Node.js
- Created efficient data retrieval and update processes to optimize performance in resource-constrained settings
- Collaborated with hardware teams to ensure software compatibility with Caterpillar's industrial equipment

Software Engineer at ADP

January 2020 - June 2021

- Built complex **React components** and integrated them with ADP's design system
- Developed and maintained reusable **React hooks** for common functionalities

- Implemented UI validation tests using **Cypress**, ensuring robust and user-friendly interfaces
- Created **Node.js REST APIs with Express** for efficient data management with **MongoDB**
- Practiced **Test-Driven Development** using Jest and **React Testing Library**
- Contributed to the migration of legacy applications to modern React architecture

Software Engineer at Accenture (Centene Corp Project)

August 2019 - December 2019

- Developed a real-time data processing pipeline using Apache Kafka and **Golang**
- Built efficient RESTful APIs using **Golang** to serve data to frontend applications
- Implemented responsive interfaces for care managers using **Angular and Angular Material**
- Containerized applications using **Docker** and orchestrated deployments with **Kubernetes**
- Gained hands-on experience with cloud technologies and microservices architecture

Education and Certifications

- Bachelor's degree in Computer Science, Universidad Alas Peruanas (2010 - 2014)
- AWS Certified Cloud Practitioner (2023 - 2026)
- Oracle OCA Certification, Universidad San Pablo (2015)
- Full Stack JavaScript Bootcamp, William Paterson University (2018)

Additional Information

- Passionate about web accessibility (WCAG) and creating inclusive user experiences
- Active contributor to open-source React projects and community forums
- Experienced in optimizing frontend performance and implementing efficient state management solutions
- Strong advocate for code quality, conducting regular code reviews and promoting best practices