

## JOSHUA ONUNGWE, M.Sc.

Staff Software Engineer (Frontend)

Toronto, Canada | +1 (647) 540 6628 | [onungwej@gmail.com](mailto:onungwej@gmail.com) | [linkedin.com/in/jocosage/](https://linkedin.com/in/jocosage/) | [github.com/joco25](https://github.com/joco25)

### SUMMARY

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Senior Software Engineer with 10+ years designing scalable web and mobile applications using React, TypeScript, Node.js, and AWS. Passionate about continuous improvement, clean code, and learning new technologies.

### TECHNICAL PROFICIENCIES

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**Frontend:** JavaScript (ES6+), TypeScript, React, React Native, Redux (Toolkit), Next.js, Cypress, Jest, React Testing Library, Enzyme, Storybook, Micro-frontends, Server-Side Rendering (SSR)

**Backend:** Node.js, Python, Elixir (Phoenix), Golang, Java, REST/GraphQL, Microservices, Serverless (AWS Lambda), PostgreSQL, MongoDB, Redis, Kafka

**DevOps & Tools:** Docker, Kubernetes, AWS (Lambda, EC2, RDS, S3), CI/CD (CircleCI, GitHub Actions, Jenkins), Git, Terraform, Docusaurus, Browserstack

**Other:** Accessibility (WCAG compliance), AI Agents, Machine Learning (NLP, Graph Mining), Blockchain (EVMs), Agile/Scrum, TDD/BDD

### WORK EXPERIENCE

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**Senior Software Engineer (Frontend), Kobai Inc - 04/2022 - Present - Ontario, Canada**

- Spearheaded build system enhancements at Kobai, reducing pipeline times by 50% and boosting developer productivity.
- Developed an enterprise data mapping, visualization and knowledge graph platform using React, TypeScript, Redux Toolkit and Node.js, managing datasets exceeding 10 million records.
- Led a team of 4 frontend developers, enforcing TDD/BDD practices, achieving WCAG accessibility compliance (reducing issues by 80%), and conducting rigorous code reviews.
- Implemented build system optimizations that doubled development efficiency.
- Collaborated with DevOps on AWS, Azure, Databricks, Docker, and Kubernetes to integrate real-time data microservices.

**Lead Frontend Engineer, Aya Payments Inc. - 03/2019 - 04/2022- Ontario, Canada**

- Redesigned a failing, crash-prone claims app at Aya Payments in 2 months using React Native, replacing manual processes and driving \$3.5 million in revenue by year-end.
- Integrated secure payment workflows with external stakeholders (Carta, People's Bank) in a fintech environment to ensure reliable transactions.
- Refactored Aya Payments' frontend with code splitting and caching, cutting load times by 40% and enabling seamless scaling for tripled traffic.
- Directed the rapid redevelopment of a claims submission app in React Native, replacing manual processes and driving a 60% revenue increase.
- Refactored frontend architecture for enhanced performance and scalability, reducing load times by 40% to support tripled user demand.
- Managed a team of 13 developers, introducing QA best practices, code reviews, and reusable Storybook components with AWS (Lambda, DynamoDB).

**Senior Frontend Developer, Softcom Limited - 09/2018 - 01/2019 - Lagos, Nigeria**

- **Clients:** ARM Pensions, GSK, MTN
- Engineered a microservice architecture for NPower, achieving 99.9% uptime for 12 million users.
- Developed a range of user-facing applications in React, including impactful projects like 'Walk into Tomorrow' (ARM Pensions) for retirement insights and 'Learn' (Learning Management System), alongside other solutions addressing diverse client needs.

- Developed Node.js microservices (Redis, RabbitMQ) supporting 1.5 million marketplace participants.
- Built an advanced React Form Builder suite called databeaver, improving stability by 25% and speeding up client deployments.

#### OTHER EXPERIENCES

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**CTO, Sagelodx** - 01/2017 - 09/2018 - Abuja, Nigeria

- Oversaw product strategy and engineering using React, Node.js, Firebase and AWS, mentoring a team in agile methodologies.

**Software Developer, KYDEVOLUTION** - 02/2013 - 05/2017 - Kwara, Nigeria

- Delivered full-stack web solutions (PHP, Ruby on Rails and Node.js), improving system efficiency by 20% for local businesses.

#### EDUCATION AND CERTIFICATES

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**M.Sc. in Data Science and Analytics**, Ryerson University (Toronto Metropolitan University)

**B.Sc. in Information and Communication Science**, University of Ilorin