

# JOHN HAMLIN

919-623-4441 · johnhamlin@gmail.com

Raleigh, N.C. · github.com/johnhamlin · linkedin.com/in/hamlinjohn

## SKILLS

JavaScript · TypeScript · Python · React · Redux · Next.js · HTML · CSS · JQuery  
Node.js · Django · Express · React Native · Expo · PostgreSQL · MongoDB · Apache Kafka  
Docker · AWS · Azure · Git · GitHub · Jest · React Testing Library · Webpack · Vite

## PROFESSIONAL EXPERIENCE

**xkite** | Software Engineer | Open source product developed at OSLabs tech accelerator **2023 – Present**

- Built with **React** to create a graphical frontend for **Apache Kafka** prototyping, testing and deployment. xkite lets developers spin up containerized Kafka clusters in minutes, run custom tests, and export their setup for deployment.
- Used **TypeScript** to expedite development by enforcing strict typing across a collaborative codebase.
- Leveraged **Next.js 13** to optimize page loading with server-side rendering and automatic code splitting. Used file-based page and API routing and built-in TypeScript support to speed up development and boost maintainability.
- Architected a **Spring Boot** microservice leveraging Java Management Extensions (JME) to expose an API for TypeScript components to access robust and scalable data about Kafka performance.
- Incorporated **Redux** into the xkite-core library for state management, establishing a unified codebase capable of effectively managing multiple asynchronous user requests and preventing any mutations within it.
- Used **Docker** to containerize the Kafka stack, minimizing user dependencies and streamlining cloud deployment
- Integrated **Prometheus** and **Grafana** for real-time monitoring and visualization of key Kafka health metrics
- Integrated a seamless CI/CD pipeline from GitHub repositories to deploy xkite.io to the web, enabling rapid iteration
- Leveraged **Jira** to implement **Agile** methodologies and **Scrum**, coordinating a team of engineers to identify a gap in open source software and develop solutions

## ENGINEERING PROJECTS

**Pikaza, OPUS, ai-mong us** | Software Engineer **2023 – Present**

- Used **Redux** to manage complex state across a multi-page app, simplifying debugging and cleaning up code
- Built **Express** servers for multiple projects, providing event-based HTTP routing and API request handling. Employed a well-organized middleware architecture to ensure streamlined data flow and modular separation of concerns
- Implemented **PostgreSQL** to build a relational data mode with strict SQL schema for a real-time chat application, allowing multiple concurrent users to safely manipulate data with ACID transactions
- Wrote **Jest**, **Supertest** and **React Testing Library** checks to harden code through unit and integration tests
- Integrated **Mongoose** and **MongoDB** to leverage schema-based modeling in a flexible, scalable NoSQL database, enhancing data management capabilities and optimizing performance for complex, dynamic data structures
- Enabled **OAuth** login, allowing users to create accounts without local authentication and associated overhead

## ADDITIONAL PROFESSIONAL EXPERIENCE

**Wake County, Town of Clayton** | Senior Communications Consultant, PIO **2015 – 2022**

- Migrated five departments' websites to Drupal, improving maintainability and extensibility
- Led cross-functional teams of engineers to develop user-focused services and community outreach campaigns
- Administered 60+ social media accounts, managing team permissions, automating posts and reporting analytics
- Built a shared tracking system and formulated metrics for a 14-department performance management program

**Raleigh News & Observer, Statesville Record & Landmark** | Newspaper Reporter **2012 – 2015**

- Covered everything from the Ham & Yam Festival and hometown heroes to the Fortune 500 and future presidents

## EDUCATION

**Codesmith** | Immersive Software Engineering Residency **2023**

Advanced full-stack JavaScript curriculum emphasizing computer science. National program with 5% acceptance rate.

**University of North Carolina at Chapel Hill** | School of Journalism and Mass Communication **2012**

Bachelor of Arts | Relevant Coursework: Java Programming, Mathematical Logic

## INTERESTS

Bar trivia champ · Hot sauce connoisseur · Kombucha homebrewer · Crossword wizard · Reverse-searing grill master