

JOHN HAMLIN

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SKILLS

TypeScript · JavaScript · Next.js · React · Angular · Tailwind CSS · HTML · CSS · Node.js · Express · Go
Java · Spring Boot · GraphQL · Apollo · React Native · Expo · PostgreSQL · Apache Kafka · Python
Docker · K8s · OpenShift · AWS · GCP · CI/CD (GitHub Actions) · React Testing Library · Webpack · JQuery

PROFESSIONAL EXPERIENCE

Deutsche Bank, HCLTech | Senior Technical Lead

2024 - Present

- Integrating **Google Gemini** for a new KYC (Know Your Customer) sidekick tool that will help DB onboard customers faster and comply with international banking regulations.
- Building UIs for **human-in-the-loop AI tools** to leverage cutting-edge technology in highly-regulated domains where hallucinations are unacceptable and could incur fines for billions of Euros.
- Executing **micro-frontend architectures** to deploy AI features reusable across legacy **Angular** and **React** UIs.
- Use **Java** and **Spring Boot** to build **REST APIs** with enterprise-grade security, scalability and resiliency through microservices architecture and cloud-native and on-prem K8s deployment.
- Used **React 19**, **TypeScript**, **Apollo GraphQL** and **Redux** to develop Deutsche Bank's critical next-generation platform for onboarding investment bank clients. Leader in the use of modern, functional React patterns and best practices.
- Developing **GraphQL** backend-for-frontend (BFF) server to abstract away calls to dozens of microservices.
- Migrating **Java Spring Boot** kubernetes microservices and CI/CD pipelines to **Google Cloud Platform** and **GitHub** from legacy **Red Hat OpenShift** hybrid platform and **BitBucket**.
- Leader in integration of AI tools, including **GitHub CoPilot agents** to cut development times to days from weeks.
- Optimized **nginx** server, **Webpack** and **Babel** to reduce initial page loads to milliseconds down from 10+ seconds.
- Optimized **Docker** files and **GitHub Workflows** to cut build times on GitHub in half, saving the company money in compute and developer time wasted waiting for builds.
- **Mentoring** junior engineers on the Regenesys team through pair programming and fostering their career growth.
- Ruthlessly **eliminating tech debt** by identifying and prioritizing high-impact refactorings. Upgraded every package in the tech stack, updating 90 npm packages – including many major version updates with breaking changes to address – and eliminated 20 dependencies. Upgraded team to Node 22 from Node 14.
- Working sun-to-sun with teams in New York, the U.K., Germany and India. Broke down organizational silos, including opening a line of communication with the Europe team for DB's in-house **React UI component library**.
- Use **Jest** and **React Testing Library** to maintain 90%+ test coverage across the dbBAR codebase.
- Onboarded to Deutsche Bank's implementation of machine learning and AI tools in **Python** and **Jupyter** notebooks.
- Organizing and contributing to meetings to **set team priorities** and make architectural decisions.

xkite | Software Engineer

2023

- 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.
- 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 **Java 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 **PostgreSQL** and **SQL** databases to create streams of data for testing Kafka clusters.
- Incorporated **Prometheus** and **Grafana** for real-time monitoring and visualization of key Kafka health metrics.

Wake County, Town of Clayton | Senior Communications Consultant

2015 – 2022

- Used **JavaScript**, **HTML**, **CSS** and **Drupal** to build and maintain websites for governments serving 1.1+ million.
- Built **Power BI** and **Airtable** dashboards to connect stakeholders with real-time info during the COVID-19 pandemic.
- Deployed **Envirosuite** to forecast odor issues with real-time weather and odor data from the South Wake Landfill.
- Led cross-functional teams of engineers to develop user-focused services and community outreach campaigns.

OPEN SOURCE

ScrewTapp | Creator | Streaming Music App for iOS and Android

- Built with **React Native** and **Expo** for a cross-platform music streaming app that runs on **iOS** and **Android**.
- Used **React Native Track Player** to build a streaming player that ties into native APIs on iOS and Android, including integration with media controls on the Lock Screen, Control Center and Dynamic Island.
- Created **Reanimated**- and **FlashList**-based components to perform animations at 60 fps at all times.
- Deployed **Redux** and **RTK Query** to fetch, cache and optimize re-fetching of data with minimal boilerplate.
- Stored state with **Redux Persist** in **MMKV** synchronous device storage to save and load app state between sessions.
- Leveraged **Expo Router** and **React Navigation** for file-based routing, deep linking and optimized route fetching.

lazygit | Contributor | Terminal User Interface for Git with 61k+ Stars on GitHub

- Write **Go** to contribute features and bug fixes in response to open issues on GitHub.
- Collaborate with a global community of volunteers to improve and maintain one of the most popular OSS dev tools on GitHub.

EDUCATION

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

2012

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

ADDITIONAL PROFESSIONAL EXPERIENCE

Raleigh News & Observer, Statesville Record & Landmark | Newspaper Reporter

2012 – 2015

- Covered everything from the local Ham & Yam Festival to interviewing Donald Trump and U.S. representatives.

INTERESTS

Bar trivia champ • Hot sauce daredevil • Twin dad • Crossword wizard • Reverse-searing grill master