

Spencer Pope

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EXPERIENCE

Technical Lead

Blockchains Inc

October 2022 - December 2023, Reno, NV

- Bootstrapped new application with Next.js, TypeScript, and Material UI and migrated all functionality from legacy React app to Next.js
- Programmed user validation with server-side rendering in Next.js and managed user sessions with Next-auth
- Configured Docker containers for QA and Preproduction deployments to multiple data centers
- Orchestrated YAML-based CI/CD pipelines in GitLab and debugged Kubernetes servers on Linux-based company infrastructure
- Facilitated all phases of SDLC including requirement analysis, implementation, and maintenance
- Communicated the capabilities of my team to product stakeholders and reconciled differences in expectations
- Collaborated with engineering managers to determine the proper domain for implementing functionality the company asked for

Web Engineer

Blockchains Inc

November 2021 - October 2022, Reno, NV

- Built user interfaces in TypeScript to create and share Verifiable Credentials following the Self-Sovereign Identity (SSI) model
- Collaborated with backend developers to ensure proper implementation of decentralized protocols in REST API endpoints
- Implemented Figma design language system application-wide using Material UI CSS theme framework
- Designed serverless GraphQL API layer using TypeGraphQL and integrated with React using Apollo Client and GraphQL Codegen
- Managed state at local and global levels using React hooks and dispatched actions through useReducer
- Debugged issues in Node.js API and optimized database queries using Prisma ORM to communicate with PostgreSQL
- Built reusable components for issuing Verifiable Credentials that scaled across several flows for consistency of user experience

Applications Engineer

Definitive Healthcare

June 2019 - October 2021, Framingham, MA

- Maintained a .NET web application that allowed users to produce healthcare intelligence reports from over ten different databases
- Built client-side forms with ASP.NET that allowed users to specify preferences for querying the underlying database
- Implemented C# controllers that ingested inputs from the user and applied them to stored procedures as parameters
- Wrote stored procedures in SQL that executed dynamic queries against the database
- Built results pages with ASP.NET that displayed data tables containing the dataset returned by the controller
- Debugged features in Visual Studio and resolved bugs reported to the product support team
- Engineered a new build step that transpiled a React.js project and added it to the .NET app's minified JavaScript
- Implemented a REST API that returned JSON from stored procedures to integrate healthcare data with React-based features
- Developed an everpresent quick search field with React and TypeScript that queried for database-agnostic results of a search term
- Programmed the quick search results page to show relevant data from new databases to interest the user in additional products

Product Management Intern

Sovos

June 2018 - August 2018, Wilmington, MA

- Shadowed engineers and stakeholders of three separate software development teams during scrum ceremonies

Quality Assurance Intern

Instant Technologies

January 2017 - June 2018, Portsmouth, NH

- Tested instant messaging software from a user perspective and reported bugs to the development team for prioritization

EDUCATION

Bachelor of Science in Business Administration

Minor in Information Technology • University of New Hampshire • Durham, NH • 2019

Certificate in Intensive Chinese Language Studies

Beijing Language and Culture University • Beijing, CN • 2019

SKILLS

Languages: TypeScript, JavaScript, SQL, C#, Python, HTML, CSS, Shell/Bash

Tools: React, Next.js, Node.js, Svelte, ASP.Net, SQL Server, PostgreSQL, MongoDB, Docker, AWS, Google Cloud, Azure DevOps