John Morgan Nemelka

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Software Engineer | TypeScript, React, Kotlin, PostgreSQL

EXPERIENCE

Domo **Sep. 2019-Jan. 2025**

Software Engineer *American Fork, UT*

- Built and maintained application platform infrastructure for internal and external engineers developing custom products with JavaScript frameworks.
- Developed and maintained Kotlin services for provisioning relational databases used by customer-built applications.
- Primary maintainer of Domo's app-development npm packages, ryuu (domoapps-cli), ryuu-client, and @domoinc/ryuu-proxy, from 2020 to 2024: published 186 releases, migrated the CLI to TypeScript, and modernized its HTTP request and middleware libraries.
- Rebuilt an internal administration tool from AngularJS to React and contributed to Domo's low-code BPMN workflow automation tool.
- Integrated Domo's first working micro-frontend into its web monorepo using Vite and RTK Query.

Brigham Young University - Center for Teaching and Learning **May-Sep. 2019**

Front-end Web Developer *Provo, UT*

- Redesigned Learning Suite interfaces in Vue for professors and students and modernized legacy AJAX interfaces to use REST APIs.

Missionary Training Center **Nov. 2017-Sep. 2019**

Lead Office Programmer *Provo, UT*

- Automated manual document and scheduling workflows with Excel and VBA, improving productivity and reducing scheduling errors.

PROJECTS

MyStakeTools - Community Operations Platform **Feb. 2026-Present**

Developer and Maintainer | TypeScript, Next.js, React, PostgreSQL, Prisma | MyStakeTools.com

- Built and maintain a production scheduling and volunteer platform with approximately 250 active unique users as of October 2026.
- Designed tenant-scoped authorization, approval workflows, and audit logging; used PostgreSQL transaction locks to prevent conflicting bookings.
- Implemented SMS reminders and workflow notifications with persistent queues, retries, and deduplication; enforced unit and database-backed API tests through GitHub Actions.

Axie Omniapp

React, Kotlin

- Built a React and Kotlin application with Web3 and blockchain integrations to automate Axie Infinity gaming businesses; load-tested for 30,000 concurrent users on minimal hardware.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Kotlin, Java, Python, SQL, C/C++, Bash, HTML/CSS, VBA

Frameworks and databases: React, Next.js, Node.js, Vue, Prisma, PostgreSQL, MongoDB, REST, GraphQL

Tools: Git, GitHub Actions, Docker, Kubernetes, Linux, Prometheus, Grafana, Vite, RTK Query

EDUCATION

Brigham Young University **May 2017 - Apr 2021**

Bachelor of Science in Computer Science *Provo, UT*