Nate Elliott

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Software engineer with 6 years of experience tackling complex technical challenges across government and healthcare technology sectors, from modernizing decades-old systems to building next-generation data management platforms, including 2 years leading a team of 6-12 engineers through a product launch in a healthcare technology startup environment. Demonstrated success leading the planning, design, and execution of complex, technically demanding projects. Capable of applying technology across the stack and collaborating cross-functionally with product, design, and business stakeholders to provide measurable value to the business and its clients.

PROFESSIONAL EXPERIENCE

Flexion
Full Stack Software Engineer **April 2024 – Present**

- Working with the US Department of Justice, US Trustee Program on modernization of their decades-old case management system with TypeScript, React, and Node in Azure Government Cloud providing centralized management of nationally-distributed Trustees and their case load.
- Worked with a cross-functional, agile team providing custom software development and consulting services to the US Tax Court team building and maintaining DAWSON, an electronic filing and case management system. Collaborated daily with technical and non-technical client stakeholders to ensure deliverables meet requirements with high quality, including design and delivery of multiple major features, including a tool to generate a recommended term trial schedule based on case load, available trial locations, employee availability, and other constraints that is expected to reduce time spent manually creating a schedule from several hundred person-hours to less than 100
- Provided consultation for and contributions to planning and implementing improvements to deployment pipelines, including parallelization of the Cypress automated test suite resulting in a 50% decrease in overall deployment time.

Technology: TypeScript, React, Node, PostgreSQL, DynamoDB, OpenSearch, CircleCI, Terraform, AWS, Azure

Moxe Health
Lead Software Engineer **April 2022 – April 2024**

- Led a team of 6 to 12 engineers of varying specialties through a year-long project to build the next generation of Moxe's Release of Information platform using TypeScript, React, and C#/.NET hosted on AWS. We launched with our first customer, resulting in a promoter survey score of 9/10. The product subsequently went live at a second alpha site serving a total of ~60 Health Information Management professionals in their daily work managing and responding to requests for clinical data, and is now the backbone of Moxe's ROI Professional Services offering, which has received the KLAS "Points of Light" award 3 years running (2022-2025).
- Coordinated engineers across teams to ingest, transform, and store data from health system event feeds to power up-to-date patient demographics lookup for HIM workflows in the ROI application
- Established a "feature lead" role within the team to provide other engineers opportunities to grow their system design and leadership skills that is now in use across multiple teams at Moxe.
- Led the adoption and evangelization of DORA metrics to evaluate team process maturity at Moxe, including vendor selection and rollout of tools to easily track these and other metrics
- Led a team of 3 interns through a project working across all engineering teams at Moxe to integrate our CI pipelines across .NET, Java, TypeScript, and Python components/applications with our new artifact repository vendor, all while simultaneously leading another team of full time Moxe engineers

Technology: TypeScript, React, C#/.NET, PostgreSQL, Github Actions, Jenkins, Terraform, AWS

PROFESSIONAL EXPERIENCE (cont'd)

Software Engineer **July 2020 – April 2022**
Junior Software Engineer **February 2020 – July 2020**

- Key contributor of 6-person team working on an early, pilot-phase iteration of Moxe's Release of Information application for health systems
- Designed and implemented scalable data processing workflows to ingest and validate hundreds of thousands of clinical data requests against complex access policies, then delegated processing to downstream retrieval systems and generated comprehensive reconciliation reports on request status and outcomes.
- Designed, documented, and built payer-facing APIs to initiate requests for clinical data, providing our customers an additional integration option beyond text file based workflows. Supported the initial launch and implementation for our first customer integrations, aiding in creating a playbook to be used for future implementations.
- Designed, documented, and built integration with third-party email API to provide email notification capability
- Refactored C#/.NET application, pairing with another Engineer, to transition away from DynamoDB to PostgreSQL for its primary data store, including release planning and rollout strategy

Technology: TypeScript, React, C#/.NET, PostgreSQL, DynamoDB, Jenkins, Terraform, AWS

Healthgrades
Campaign Operations Intern **May 2019 – August 2019**

- Write scripts using Oracle SQL and PostgreSQL according to specifications outlined by marketing personnel to extract data used for generating mailing lists. Generated approximately 35 mailing lists over the summer with a script accuracy of 90%
- Assist in the maintenance and debugging of internally-built script execution tool built with C# and the .NET framework. Refactored exception-handling for improved usability, fixed bug that blocked saving of scripts, and deployed fixes for team use

Technology: SQL, C#/.NET

EDUCATION & CERTIFICATIONS

AWS Certified DevOps Engineer - Professional
Associate in Applied Science, Web Software Development *Madison College,* GPA 4.0
Bachelor of Science, Biochemistry *University of Wisconsin – Madison*

PERSONAL PROJECTS

Niche (AI-powered job matching service) **January 2024 – December 2024**

- Worked with another software engineer on building a job matching service enabling candidates to define "search profiles" including both structured and unstructured job criteria to search on, then match the user to jobs to which they should apply based on that profile. Application side was built with Svelte/ TypeScript on the front end and Python with FastAPI on the backend, with data pipelines for sourcing job data built with Python.

Technology: Python, FastAPI, React, TypeScript, PostgreSQL