

# Joshua T. Lamb

*Full Stack Application Execution, Leadership and Strategy*

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## Professional Experience

### **Software Engineer III, Northwestern Mutual, Milwaukee, WI, NMXP Platform Team**

*April 2024 to Present*

- Tech Lead on 6 Java Spring Boot Applications that enable an ETL pipeline for client and field search data, and a large NodeJS/GraphQL Microservice for access to client and field data.
- Designed and developed an extensive React/Next.js search admin tool that integrated with various databases, AWS infrastructure, and 6 internal APIs.
- Led development of HIPAA-compliant search microservice and OpenSearch data architecture, enhancing client data accessibility.
- Developed AWS Lambda application for data validation, reducing data quality issues and support tickets significantly, for over 130 million client records across environments.
- Architected and built solution for event-driven data ingestion, reducing time from client record creation in CRM to searchability by 3-5 minutes.
- Mentored and managed a junior contractor into a full-time engineer.

### **Full Stack Software Engineer, Northwestern Mutual, Milwaukee, WI, NMXP Platform Team**

*June 2020 to April 2024*

- Led development of applications enabling search functionality across 60+ million client records.
- Managed AWS infrastructure deployment using Terraform, including OpenSearch, various databases, Lambda, EC2, and IAM/KIAM.
- Integrated Centralized Client Record into Java Spring Boot search ETL pipeline, improving data integration and accessibility.
- Investigated and implemented solutions for application issues, reducing on-call incidents and business escalations.
- Mentored junior team members through code reviews and one-on-one sessions.

### **Senior Software Engineer, GE Healthcare, Milwaukee, WI, Digital Transformation Team**

*March 2020 to May 2020*

- Led migration of 3 applications from GE proprietary cloud platform to AWS, ensuring seamless integration and improved scalability.
- Developed ReactJS, Typescript, and NodeJS applications for integration with manufacturing lightstacks, managing Kepware server configuration.
- Designed and executed proof of concept applications, accelerating business evaluation processes.

### **Software Engineer, GE Healthcare, Milwaukee, WI, Digital Transformation Team**

*June 2018 to March 2020*

- Enhanced Lean manufacturing practices through development and support of Takt application.

- Collaborated with manufacturing teams to optimize processes using NodeJS, ReactJS, and Polymer applications.
- Developed Java Spring Boot backend with PostgreSQL for robust application frameworks.
- Implemented remote monitoring solution using MQTT protocol, enhancing environmental condition monitoring.

**Mechanical Engineer, GE Healthcare, Waukesha, WI, *Imaging Hardware Platform Team***

*May 2015 to June 2018*

- Designed, tested, and implemented a cost-effective environmental monitoring device for mobile medical scanning equipment, encompassing hardware and PCB design, OS configuration, sensor data acquisition, and web application integration.
  - Spearheaded the development of a Predix-based application to manage a nationwide fleet of 100+ monitoring devices, ensuring streamlined operations and maintenance.
  - Managed a comprehensive library of 2300+ mechanical components across GEHC, optimizing documentation and CAD models, resulting in over \$500k in annualized cost savings.
  - Engineered CAD automation software utilizing third-party tools, enabling automated assembly and precise calculation of bolted joints in CAD assemblies. Conducted FEA simulations to validate design efficacy.
  - Co-managed the GEHC Makerspace Lab, fostering innovation by overseeing fabrication tools such as 3D printers, laser cutters, CNC mills, and routers, supporting various technology projects.
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**Education**

*North Carolina State University*

*Bachelor of Science in Biomedical Engineering, May 2015*

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**Technical Skills**

- Programming Languages: Node.js, Java, JavaScript/TypeScript
- Frameworks/Libraries: React, Next.js, GraphQL, Spring Boot, Express.js
- Databases: OpenSearch/ElasticSearch, PostgreSQL, Aurora
- Cloud Technologies: AWS (EC2, Lambda, SQS, IAM), Docker, Kubernetes
- Tools: Terraform, Git, New Relic, Grafana