

# Diego Segovia

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## WORK EXPERIENCE

### Massachusetts Mutual Life Insurance Company

Jun 2023 - Present

Full Stack Developer

Boston, MA

- Built and maintained enterprise-grade web applications to modernize legacy systems using an in-house development platform, **JavaScript**, and **React**—significantly improving operational efficiency
- Engineered core features for a **financial reporting system** that automates weekly and monthly annuity reinsurance reports, processing millions of transactions per report cycle and **eliminating 40+ hours of manual work per week**
- **Optimized complex SQL Server queries** by improving index usage and table joins, reducing report generation times from **over 5 hours to under 2 hours** and significantly improving processing efficiency
- Integrated Amazon S3 to automate retrieval and processing of large-scale financial datasets
- Developed a **centralized user access management system with role-based access control**, empowering teams to manage permissions without IT involvement
- Automated user onboarding and offboarding by integrating ServiceNow's REST API and implementing AWS IAM audits, **reducing licensing overhead and improving compliance**
- **Created reusable front-end components**—including a dynamic timeline and a rich-text comment editor—enhancing code reuse, consistency, and user experience across applications

### Massachusetts Mutual Life Insurance Company

May 2022 - Aug 2022

Full Stack Developer Intern

Boston, MA

- **Developed a web-based feedback management tool** using the PERN stack (PostgreSQL, Express, React, Node.js) to automate the retrieval, validation, and formatting of customer feedback for analysis
- Streamlined data processing by enabling automatic validation and transformation of feedback data, **reducing the business team's manual data formatting time**
- **Designed a user interface** that allowed users to identify and correct missing fields, **ensuring data integrity** before storing it in an analysis-ready database
- **Collaborated with the customer assistance team** to gather user feedback, refining the tool to improve usability and reporting accuracy. Enhanced front-end interfaces using React and Bootstrap, improving user experience and accessibility for non-technical users

## PROJECTS

### IoT Protocol Simulation & Network Analysis App

- Developed a **console-based application in Node.js** to simulate IoT devices transmitting data using CoAP and MQTT protocols under varying network conditions (e.g., bandwidth, speed, and latency)
- Benchmarked protocol efficiency by measuring **packets per second**, **round-trip latency**, and **throughput**, identifying performance trade-offs between CoAP and MQTT
- Presented findings at the **Consortium for Computing Sciences in the Northeast (CCSNE)** after the project was accepted for academic presentation, highlighting **IoT communication strategies** in constrained environments

## EDUCATION

### Eastern Connecticut State University

Aug 2019 - May 2023

Bachelor of Science in Computer Science, GPA: 3.9

## SKILLS

**Language:** JavaScript, Node.js, SQL

**Technologies:** React, HTML, CSS, RESTful APIs, AWS S3, AWS IAM

**Database:** Microsoft SQL Server, PostgreSQL

**Others:** Git, Github, OOP, Agile Development, JIRA, Confluence