

# MIHIR BOMMISETTY

Sr. Full Stack Developer | Java · Spring Boot · Angular · React · Next.js

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## SUMMARY

Results-driven Sr. Full Stack Developer with 7+ years of IT experience architecting and delivering enterprise-grade applications across government, manufacturing, and technology sectors. Deep expertise in Java full stack development using Spring Boot, Spring MVC, Spring Security, Hibernate/JPA, and RESTful Microservices on the back end, paired with modern front-end frameworks including Angular 17+, React/Redux, Next.js, and Node.js/Express.js. Proficient with .NET technologies (ASP.NET Core, C#, WCF, Web API), cloud platforms (Azure, AWS), CI/CD pipelines, and relational/NoSQL databases. Adept at Agile/Scrum delivery, CQRS patterns, and building secure, scalable, high-performance systems from API design through production deployment.

## TECHNICAL SKILLS

<b>Java Stack:</b> Java 11/17, Spring Boot, Spring MVC, Spring Security, JWT/OAuth2, Hibernate, JPA, Maven, Gradle	<b>Databases:</b> SQL Server 2008/2012/2016, PostgreSQL, MySQL, Oracle, MongoDB; T-SQL, Stored Procedures, Hibernate ORM, Query Optimization
<b>Front-End:</b> Angular 15/17, React 18, Redux Toolkit, Next.js SSR/SSG, TypeScript, JavaScript ES6+, HTML5, CSS3, Bootstrap, Material UI	<b>Cloud &amp; DevOps:</b> Azure DevOps CI/CD, YAML Pipelines, Azure App Service, Azure AD, AWS (EC2, S3, Lambda), Docker, Jenkins, IIS
<b>Back-End / APIs:</b> Node.js, Express.js, REST Microservices, GraphQL, ASP.NET Core, WCF SOAP/REST, Entity Framework Core, Dapper, CQRS	<b>Testing &amp; Tools:</b> JUnit, Mockito, NUnit, xUnit, TDD, Swagger/OpenAPI, Postman, Fiddler, SoapUI, JIRA, Rally, Visual Studio, IntelliJ IDEA
<b>.NET Stack:</b> .NET 6/7, ASP.NET MVC, C#, VB.NET, WPF, ADO.NET, LINQ, SignalR, Classic ASP, Silverlight	<b>Methodologies:</b> Agile/Scrum, SDLC, Microservices Architecture, SOA, CQRS, Repository Pattern, WCAG Accessibility (Wave Tool, JAWS)

## WORK EXPERIENCE

### Application Developer III

April 2024 – Present

*Fish & Boat Commission of PA - Harrisburg, PA*

- Architected and delivered full stack features using Spring Boot REST APIs on the back end and Angular 17 on the front end, replacing a legacy monolithic RFP system with a modern micro-serviced architecture.
- Built secured Spring Security + JWT/OAuth2 authentication layer for Angular front-end, enforcing role-based access control across government-facing web portals.
- Developed React/Redux components for internal admin dashboards, integrating with Java REST APIs via Axios and managing global state with Redux Toolkit.
- Designed Hibernate/JPA entity models and optimized complex HQL/JPQL queries for high-volume transactional data; managed schema evolution with Liquibase.
- Implemented CQRS architecture with Spring Boot command and query services, supporting concurrent maintenance and decoupled Angular front-end updates.
- Ensured WCAG accessibility compliance across all Angular and React views using Wave Tool and JAWS; met all government portal accessibility mandates.
- Consumed and published RESTful Web APIs with Swagger/OpenAPI documentation; integrated Entity Framework Core and Dapper alongside JPA for .NET legacy interop.
- Automated CI/CD using Azure DevOps YAML pipelines for Spring Boot JARs and Angular builds; managed IIS and Azure App Service deployments.
- Published reusable Angular component libraries and Java utility packages (NuGet/Maven) for cross-project consumption across development teams.

### Full Stack Developer

January 2023 – December 2023

*Pennsylvania Child Support Enforcement System (PACSES) – Mechanicsburg, PA*

- Developed new microservice modules using Spring Boot and Spring MVC, exposing REST endpoints consumed by Angular 15 front-end and legacy ASP.NET C# applications.
- Implemented Spring Security with JWT tokens and OAuth2 for stateless API authentication, replacing session-based legacy auth across core PACSES services.
- Built React/Redux interfaces for case worker dashboards; used Next.js SSR for public-facing pages to improve SEO and initial load performance.
- Created Node.js/Express.js middleware services to bridge Java microservices and front-end React clients, handling request orchestration and response transformation.

- Designed Hibernate ORM mappings and wrote optimized JPQL/native SQL queries, triggers, and table indexes, improving batch processing performance significantly.
- Created Hangfire background jobs in .NET Core and Spring Batch jobs in Java to isolate heavy processing from the primary application workflow.
- Configured Azure DevOps CI/CD pipelines for Spring Boot and React builds; set up IIS and Azure App Service environments for multi-tier deployments.
- Integrated MS Azure Active Directory, Exchange Online, and Entra ID for SSO and user lifecycle management across the application suite.
- Designed and consumed XML Web Services using Micro Service Architecture; published Angular component NuGet packages for shared use.

## Made2Manage - Remote

January 2017 – August 2022

### Software Engineer

- Led Java Spring Boot microservice development for ERP modules (inventory, order management, HCM); built React 17/Redux dashboards replacing legacy ASP.NET Web Forms.
- Designed Hibernate/JPA entity models and SQL Server stored procedures; deployed Spring Boot on AWS EC2 with ELB and built Node.js/Express.js API gateway across Java microservices and .NET WCF.
- Wrote JUnit and Mockito unit/integration tests achieving 80%+ coverage; managed source control across Git/SVN/ClearCase and enforced code review standards for a team of 6 developers.

### Development Engineer

- Participated in full SDLC under Agile/Scrum; drove initial Spring Boot adoption for greenfield back-end modules alongside existing ASP.NET/C# systems.
- Migrated front-end from AngularJS to Angular 8/9 with TypeScript; built dynamic ASPX pages, WPF controls, and ADO.NET data layers for legacy application modules.
- Designed stored procedures, triggers, and Crystal Reports; later re-implemented reporting endpoints as Spring Boot REST + React table views as the team transitioned to full stack Java.

## PROJECTS

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### QuantumMail-v2

2025 – Present

[quantummail-v2.onrender.com](https://quantummail-v2.onrender.com) | [github.com/munnamihir/QuantumMail-v2](https://github.com/munnamihir/QuantumMail-v2)

JavaScript, Node.js, HTML/CSS, AES-256-GCM, RSA-OAEP, Web Crypto API

- Architected and built a full-stack organization-based client-side email encryption platform enabling secure sharing of sensitive content and file attachments via encrypted per-recipient access links — plaintext never stored server-side.
- Implemented envelope encryption model using AES-256-GCM for message and attachment encryption combined with RSA-OAEP-SHA256 for per-recipient Data Encryption Key (DEK) wrapping; device-bound RSA keypairs generated and stored entirely client-side via the Web Crypto API.
- Designed multi-tier RBAC architecture with SuperAdmin, Admin, and Member roles; built invite-based onboarding flow with OTP email verification via Brevo, setup token generation, and organization approval workflows.
- Developed Chrome browser extension and Microsoft Outlook Add-in to allow users to compose and decrypt encrypted messages directly within their existing email clients without leaving the native interface.
- Built a React-based admin portal with organization management, encrypted inbox, compose/decrypt views, vault, analytics dashboard, and audit trail logging of all access attempts and key operations.
- Deployed the Node.js/Express.js REST API backend on Render; server stores only encrypted payloads, wrapped DEKs, and audit metadata — private keys and plaintext are never transmitted or persisted server-side.

## EDUCATION

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**Stevens Institute of Technology** | Master of Science (MSc), Computer Science

**Relevant Coursework:** Advanced Web Technologies, Distributed Systems, Cloud Computing, Software Architecture, Database Management Systems, Algorithms & Data Structures.

**Koneru Lakshmaiah Education Foundation** | Bachelor of Technology (BTech), Computer Science

**Relevant Coursework:** Object-Oriented Programming, Data Structures, Operating Systems, Computer Networks, Software Engineering, DBMS.

## CERTIFICATIONS

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- RPA (RE Framework) by UIPath
- CSA – Certified System Administrator (ServiceNow)
- Wipro Certified Java Professional
- Oracle Academy: DBMS & Java
- IRJET Research Publication: Disease Detection of Plants using Convolutional Neural Networks