

Lauren Prete

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Professional Profile

Experienced Software Engineering Lead with over 8 years of expertise in designing, developing, and maintaining scalable, high-performance applications. Proven track record in full-stack development, technical leadership, and process optimization. Adept at translating business requirements into innovative software solutions while mentoring and leading engineering teams. Strong advocate for best practices, automation, and cloud technologies to enhance software deployment and reliability.

Technical Skills

- **Frontend:** JavaScript, TypeScript, Angular, React, Svelte
- **Backend:** C#, .NET Framework/Core/6+, Java, Python, Node.js, SQL (MS SQL Server, PostgreSQL, MySQL), NoSQL (MongoDB, AWS S3)
- **DevOps, AI & Cloud:** Docker, Jenkins, GitLab, AWS, Azure, OpenAI

Professional Experience

North Atlantic Industries, Inc. | Bohemia, NY

Software Engineering Lead *(June 2024 – Present)*

- Lead and mentor a team of 3 full-time software engineers and 1-2 interns annually, guiding them through software architecture, development best practices, and problem-solving.
- Act as a hands-on technical leader, continuing to design, develop, and maintain full-stack applications and APIs
- Drive technical strategy, ensuring software solutions are scalable, maintainable, and aligned with business objectives.
- Collaborate with stakeholders to define project roadmaps, balancing feature development, technical debt, and operational efficiency.
- Oversee and contribute to cloud migration efforts, modernizing legacy on-prem applications
- Lead DevOps initiatives, optimizing build, testing, and deployment pipelines across all levels of software development, from web applications to embedded systems.

Senior Software Engineer *(June 2020 – June 2024)*

- Architected, developed, and maintained databases, web APIs, and full-stack applications using C#, .NET Framework/Core/6+, SQL Server, PostgreSQL, MongoDB, JavaScript, Angular, React, and SvelteKit.
- Designed and implemented scalable, mobile-friendly user interfaces, focusing on usability, accessibility, and performance.
- Led initiatives to modernize legacy systems, migrating on-prem applications to AWS/Azure and improving maintainability.
- Containerized applications using Docker, streamlining development and deployment workflows.
- Established CI/CD pipelines with Jenkins and GitLab, automating build, testing, and deployment processes.
- Developed AI-assisted tools leveraging OpenAI API to enhance internal automation and customer-facing applications.
- Provided mentorship to junior developers and interns, helping them develop technical skills and gain hands-on experience.

Software Engineer *(June 2019 – June 2020)*

- Designed and built full-stack applications and APIs, working primarily with C#, .NET, SQL Server, and JavaScript frameworks.
- Collaborated with stakeholders and other software engineers to develop software solutions supporting process improvement across the company
- Assisted in refactoring and optimizing legacy codebases, improving maintainability, performance, and security.

Software Solutions Consulting, Inc. | Ronkonkoma, NY

Web Application Developer *(September 2018 – June 2019)*

- Designed, developed, documented, and maintained .NET Web Forms and MVC applications and APIs using C#, Visual Basic, MS SQL, and JavaScript/jQuery
- Developed data models, stored procedures, triggers, and functions to implement business logic.
- Led client-facing projects, translating business goals into technical solutions and ensuring successful execution.

Garment Printer Ink | East Northport, NY

Full Stack Web Developer *(July 2017 – September 2018)*

- Maintained and enhanced an e-commerce website built on a LAMP stack (PHP, MySQL, JavaScript, HTML, CSS).
- Performed Linux server administration (Ubuntu 16.04), maintenance, and optimization
- Migrated Magento 1 to Magento 2, ensuring data integrity and minimal downtime.
- Developed Magento 2 modules to improve functionality and user experience on both the frontend and backend.

Education

Bachelor of Science in Computer Science
Stony Brook University | Stony Brook, New York

August 2012 – May 2017