

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 from front-end to embedded systems, technical leadership, and process optimization. Adept at translating business requirements into robust 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, Tailwind
- **Backend:** C#, .NET Framework/Core/6+, Java, Python, Rust, C, Node.js, SQL (MS SQL Server, PostgreSQL, MySQL), MongoDB
- **DevOps, AI & Cloud:** Docker, Jenkins, GitLab CI, AWS (EC2, ECS, RDS, Lambda, S3, etc), Azure, Ansible, Terraform, OpenAI

Professional Experience

North Atlantic Industries, Inc. | Bohemia, NY

Software Engineering Lead (*June 2024 – Present*)

- Lead and mentor a high-performing team of 4 full-stack engineers and 1-3 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
- Collaborate with stakeholders to drive technical strategy and project roadmaps, balancing business objectives with long-term scalability, technical debt management, and operational efficiency
- Architect and lead the migration of a core monolithic on-prem API (supporting 30+ apps) to a cloud microservices architecture
- Spearhead the architecture of a modular embedded SDK to replace legacy monolithic firmware, developing the core implementation in Rust to serve as the design blueprint for parallel C++ development
- Lead DevOps initiatives, optimizing build, testing, and deployment pipelines across all levels of software development, from web applications to embedded systems, using Jenkins, GitLab CI, Terraform and Ansible.

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/implemented 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)*

- Delivered several custom full-stack web applications and APIs using C#, .NET (MVC/Web Forms), and JavaScript, ensuring scalable architecture and long-term maintainability
- Developed data models, stored procedures, triggers, and functions to drive critical business logic and data processing
- Ensured system stability and high availability across a diverse client portfolio by providing rapid troubleshooting and critical production support.
- Managed direct client relationships and project lifecycles, successfully translating business requirements into precise technical specifications and deployed solutions.

Garment Printer Ink | East Northport, NY

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

- Designed and implemented full-stack enhancements for a LAMP-based e-commerce platform, improving user experience and directly contributing to increased sales revenue.
- Managed Linux server infrastructure (Ubuntu), performing maintenance and optimization
- Executed a critical platform migration from Magento 1 to Magento 2, ensuring 100% data integrity and business continuity with minimal downtime
- Developed custom Magento 2 modules to extend platform capabilities, including customer review systems and custom CMS workflows to streamline backend management

CA Technologies | Stony Brook, NY

Software Engineer Intern *(January 2015 – May 2017)*

- Implemented, documented, tested, and maintained JavaScript-based user interfaces for large- and small-scale web applications
- Developed a modular and extensible UI components library (charts, forms, progress bars, sliders, etc.) using AngularJS and Angular 2
- Improved and supported software by diagnosing and resolving defects across several web applications
- Collaborated with a team of engineers and user experience designers to build products according to requirements as part of an agile development process

Education

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

August 2012 – May 2017