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| Zackary Morelli  Motivated and detail-oriented .NET web developer with a background in physics | **Salem, MA 01970**  **(781) 960-3763**  [**zackmorelli@gmail.com**](mailto:zackmorelli@gmail.com)  **LinkedIn:** [www.linkedin.com/in/zackary-morelli-363806143](file:///C:\Users\ztrm\Downloads\www.linkedin.com\in\zackary-morelli-363806143) GitHub: <https://github.com/zackmorelli>SKILLS ***Software Development:***   * C# and VB.NET with Visual Studio, SQL * .NET (formerly .NET Core) and .NET Framework * ASP.NET Web development, Razor Pages, MVC, learning Blazor * HTML, CSS, and jQuery * Entity Framework, LINQ, SQL Server, SSMS, SSIS * Git/GitHub * IIS and Nginx * Windows server and Ubuntu Linux server * REST APIs * Windows Forms * 3D mesh/structure manipulation   ***Scientific/Laboratory:***   * Experienced in collecting and analyzing experimental data and interpreting results * uncertainty analysis * writing lab reports and technical documents   ***Personal:***   * Very organized, strong written and verbal communication skills * Strong critical thinking and problem-solving skills * Experienced in Microsoft Excel, Word, & Power Point * Able to work independently with minimal oversight * Project management * Supervising and training other developers |
| EXPERIENCEJD Software, Salem MA — *Software Developer*January 2022 – November 2024  * Full stack .NET web developer and project manager at a GovTech software consulting company overseeing web app development and project delivery * Develop and maintain of multiple ASP.NET web applications, utilizing both Razor Pages and MVC frameworks * Led the creation of new web apps and enhanced existing ones with new features * Managed full project lifecycle from planning and development to deployment and maintenance * Supervised and mentored a junior developer providing guidance and support to enhance team productivity and skill development * Utilized technologies including C#, VB.NET, ASP.NET, jQuery, SQL Server, and custom HTML/CSS (Flexbox) to deliver high-quality web solutions   **Radiation Oncology, Lahey Hospital and Medical Center, Burlington MA — *Assistant Medical Physicist*** February 2019 - January 2022  * Conducted monthly and annual quality assurance tests for medical linear accelerators and CT scanners across three clinical locations to ensure compliance with safety standards and operational efficiency * Performed routine maintenance and troubleshooting of radiological equipment, ensuring optimal performance and minimizing downtime * Led various programming initiatives aimed at improving workflow efficiency, including custom software tools (GitHub portfolio available for examples) * Developed and implemented a 3D-printed bolus project to enhance radiation therapy precision   **Nuclear Physics Research Group, UMass Lowell, Lowell MA — *Paid* *Intern*** May 2018 - December 2018  * Designed and developed Compton Camera imaging software using C++ and ROOT for a large, double-sided, segmented HPGe radiation detector  EDUCATIONUniversity of Massachusetts, Lowell- Lowell MA — Bachelor of Science in PhysicsAugust 2014 - December 2018  * Honors College and Dean’s list * Member of the Society of Physics Students and its honors organizations, Sigma Pi Sigma  PUBLICATIONSHalvorsen, P.H., Hariharan, N., Morelli, Z.T. and Iftimia, I.N. (2021), Modeling of kyphoplasty cement for accurate dose calculations. J Appl Clin Med Phys, 22: 261-272. <https://doi.org/10.1002/acm2.13174>Halvorsen, P. H., Burmeister, J., Hariharan, N., Kim, M., Lee, B., Lincoln, H., Morelli, Z., Sala, I. M., Sethi, A., & Wang, H. (2023). Resource Allocations for Common RadiationOncology Procedures. Practical radiation oncology, 13(5), e423–e441. <https://doi.org/10.1016/j.prro.2023.03.012>ACCOMPLISHMENTS  * Former associate member of the American Association of Physicists in Medicine * Presenting author for a poster accepted for presentation at 2020 Spring Clinical meeting   ◦https://w3.aapm.org/meetings/2020SCM/programInfo/programAbs.php |