# **Ryan Spears**

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# Summary

Software engineer with 4+ years of experience developing scalable web and machine learning applications. Currently completing an accelerated Master's at Carnegie Mellon University, with proven expertise in Python, C#, and SQL. Recognized for rapidly progressing from intern to senior developer, and passionate about mentoring others and driving operational efficiency.

Online Presence: Github | LinkedIn | Personal Site

## Experience

#### Benco Dental

## Senior Software Developer | 05/2021 - Present

- Mentor junior developers, fostering a culture of learning and development.
- Managed and maintained 20+ critical internal applications, ensuring high reliability, performance, and minimal downtime.
- Led adoption of advanced CI/CD pipelines, reducing software delivery time by 40%.
- Advocated for and integrated innovative technologies, such as AI-assisted code completion and streamlined development processes, boosting developer productivity and code quality.
- Designed and implemented complex **SQL** queries and ETL processes to support and enhance application performance, data consistency, and integration across critical internal systems.
- Resolved critical system issues, maintaining a high uptime with expertise in C# (.NET) and Python.
- Earned three promotions from intern to senior developer within three years-fastest progression in company history.

#### Carnegie Mellon University Robotics Institute | PA, Pittsburgh Researcher | 10/2024 - 05/2025

- Designing and developing audio classification algorithms using Python and machine learning to enhance robotic perception in agricultural applications.
- Creating robust data pipelines using ROS (Robot Operating System) for efficient real-time audio data collection and analysis.
- Independently conducting experimental evaluations to optimize model accuracy in classifying environmental sounds, aiding autonomous decision-making for agricultural robotics.
- Documenting methodologies and results to support future advancements in precision agriculture technologies.

## Education

#### Carnegie Mellon University | Pittsburgh, PA M.S. Software Engineering | 05/2025

- 3.99 GPA
- Accelerated program completion in 2 semesters (normally 4 semesters).

## Florida International University | Miami, Florida

- B.A. Computer Science
- 3.82 GPA
- Completed degree in 2.5 years (normally 4 years)

## Skills

HTML, CSS, JavaScript, Python, SQL, SQL Server Management Studio, .NET, C#, React.js, Next.js, Rust, Git, Computer Science, ROS, CI/CD, Bamboo, DevOps