

Cory Coward

Software Engineer

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Professional Summary

Accomplished electrical engineering graduate with over 13 years of experience in software design and development, actively pursuing opportunities in the software engineering field. Recognized for exceptional multitasking abilities and executing complex tasks with precision and efficiency. Offers a distinctive blend of technical expertise and effective communication skills with diverse audiences, having worked on cross-functional teams of up to 20 members. Aiming to contribute as a strategic asset to enhance team capabilities and drive projects towards success.

Core Competencies

- Proficient in Python, C#, C, C++, TypeScript, and SQL, with a proven track record of delivering impactful software solutions.
- Strong foundation in analytical problem solving and advanced mathematics, enhancing software engineering capabilities with insights from circuit design and physics principles.
- Rapid learner and analytical thinker committed to continuous professional and personal growth.
- Strong interpersonal and communication skills, fostering a collaborative, team-oriented mindset.
- Demonstrated ability to thrive in dynamic environments, bringing innovation and excellence to senior software engineering roles using Agile methodologies.

Skills

Programming Languages: Python, C#, C, C++, JavaScript/TypeScript, SQL

Technologies: .NET Core, Entity Framework, NumPy, Pandas, SciPy, Django, FastAPI, React, RESTful APIs, CMake, Git, GitHub, Docker, Microsoft Azure

Development Tools: Visual Studio, VS Code, JetBrains IDEs

Work Experience

Geico

Senior Engineer

Remote (Southborough, MA)

July 2024 - Present

Implementing a scalable solution to streamline frequent updates to customer interaction flows.

- Developed and implemented key features of a low-code tool enabling sales and product teams to modify complex customer interaction flows without developer intervention, reducing engineering bottlenecks and improving operational agility
- Transitioned to supporting the live production system, resolving backlog issues, refactoring legacy code to modern software patterns, and enhancing security by addressing vulnerabilities and enforcing best practices
- Worked on a large scale insurance platform serving 16 - 18 million users per month, ensuring high availability, performance, and security within a distributed cloud environment
- Skills utilized: C#/.NET Core, TypeScript, Git, Microsoft Azure, CosmosDB

Bose

Senior Software Engineer

Framingham, MA

November 2022 - November 2023

Developed and enhanced customer-facing audio software tuning tools.

- Designed and implemented an integration methodology for seamlessly incorporating external code libraries into Python codebase, enhancing modularity and improving interoperability and development time
- Utilized NumPy and SciPy to perform audio signal manipulation and digital signal processing (DSP) operations, including filtering, Fourier transforms, and spectral analysis, to enhance audio quality and extract meaningful features from audio data
- Collaborated with cross-functional teams to identify and address user needs, resulting in the creation of intuitive tools that significantly improved the user experience
- Streamlined project architecture, resulting in enhanced system performance, stability, and scalability
- Skills utilized: Python, C#, C, C++, TypeScript, NumPy, SciPy, Pandas, React, Git

Southern Automation and Controls

Software Engineer

Sherman, MS

March 2022 - November 2022

Developed and deployed software solutions to monitor and control industrial equipment and PLCs.

- Architected applications to ensure seamless communication between software systems and PLCs
- Deployed Django web applications in a Linux environment, ensuring optimal performance, security, and scalability, while reducing operating costs by up to 20%. Managed server configurations, automated deployment processes, and monitored application health to maintain high availability and reliability
- Incorporated software-based reporting mechanisms and real-time alerts, leveraging email and SMS notifications, enhancing the system's capability to provide timely insights, contributing to improved decision-making and operational efficiency in industrial settings while reducing response times by up to 40%
- Skills utilized: C#/.NET Core, Python/Django, PostgreSQL, React, Git

C2 Solutions, LLC

Owner/Technical Director

Pontotoc, MS

March 2018 - January 2022

Orchestrated collaborative partnerships with diverse clients, designing and implementing bespoke web-based solutions to meet their unique needs.

- Engineered performant and secure RESTful back-end APIs using technologies such as ASP.NET Core, Django, SQL Server, and PostgreSQL
- Executed end-to-end development of dynamic websites, utilizing Django for the back end and crafting interactive front-end single-page applications with React and Svelte
- Demonstrated a commitment to delivering robust, scalable solutions and seamless, user-centric experiences, while managing up to four clients simultaneously
- Skills utilized: C#/.NET Core, Python/Django, React, Svelte, CSS, SQL Server, PostgreSQL, Git

Tupelo Furniture Market

Software Developer/IT Director

Tupelo, MS

October 2014 - November 2018

Designed and engineered desktop applications for streamlining rental property management and optimizing vendor operations at conventions and trade shows.

- Designed and developed rental property and tenant management software using C#/.NET and MySQL
- Architected comprehensive convention management software in C#/.NET and MySQL. This included recording vendor attendance at shows, managing financial information, and implementing interactive floor plans for vendor booth layouts
- Skills utilized: C#/.NET Framework, WPF, PHP, MySQL

Education

Mississippi State University

Starkville, MS

Bachelor of Science (B.S) in Electrical Engineering, Minor in Mathematics