Carter Wooton

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Professional Summary

Collaborative and adaptable Software and Data Engineer with a proven ability to tackle complex challenges at the intersection of complex data analysis, software development, and business strategy. Drives efficiency and uncovers critical insights by applying a multi-language programming toolkit and pioneering serverless AI solutions. Currently pursuing a Master's in Business Analytics with an AI concentration to proactively enhance skills in designing intelligent systems that answer the critical business questions of tomorrow.

Education

University of Louisville, Master of Science: Business Analytics (AI Concentration)　　　Jan 2025 - Dec 2025

- GPA: 3.9
- Coursework: Storytelling With Data, Natural Language Processing, Advanced Analytical Tools

Southern New Hampshire University, Bachelor of Science in Computer Science (Software Engineering)　　　May 2021 - Dec 2023

- Summa Cum Laude
- Coursework: Data Structures and Algorithms, UI/UX Design and Development, System Analysis and Design

Work History

Software Engineer, Essential Innovations – Louisville, KY　　　May 2025 - Current

- Developed and maintained backend services and scripts that automate document population, reducing manual processing times by over 50%.
- Engineered logic to map user data to complex government forms, streamlining the benefits application process to improve data accuracy and enhance the client experience.
- Advised the leadership team on software and automation strategies to reduce operational costs, directly influencing the technical direction of two major projects.

Barista/Roaster, Heine Brothers Coffee – Louisville, KY　　　Jan 2022 - Jan 2025

- Managed competing priorities of speed and quality in a dynamic, fast-paced environment to consistently meet and exceed customer expectations.
- Managed a multi-step roasting process, ensuring consistency and adherence to strict quality standards for new coffee blends.
- Conducted systematic testing and analysis of new coffee blends to maintain a high-quality, consistent product, ensuring brand integrity and customer loyalty.

Projects

Chicago "L" Ridership Analysis - View in Portfolio

- Identified high-potential areas for business investment by analyzing 25 years of ridership data to pinpoint stations with the highest growth rates.
- Generated actionable insights for strategic planning by highlighting new, post-pandemic ridership patterns across 146 stations.
- Enabled data-driven decision-making for stakeholders through an interactive visualization tool that simplifies complex growth and recovery trends.

Technical Skills

Serverless Web/Application Development: Angular SPA, Node.JS, .NET, AWS (API Gateway, Lambda, EC2, S3, IAM)

Data Tools: Data Analysis and Visualization (R, Matplotlib, Plotly, SQL, Microsoft Office Suite, PoweBI)
Databases and DBMS: AWS RDS, MongoDB, Azure Cosmos DB

AI & Machine Learning: Serverless AI Model Implementation (AWS Bedrock, Azure AI Foundry)

Development Practices: Agile Development, Scrum, Version Control, Unit Testing

Programming Languages: Python, JS, C/C++, C#/.NET

AI Development tools: Claude Code, Github Copilot

Professional Skills

Project Management: Project Ownership, Problem Solving, Perseverance, Time Management

Interpersonal Skills: Teamwork, Verbal & Written Communication, Public Speaking, Leadership

Personal Attributes: Adaptability, Critical Thinking, Self-Starter