Nicholas Manning

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TECHNICAL SKILLS

Languages: Python, Javascript, C#, HTML, CSS
Frameworks & Libraries: ASP.NET Core (Razor Pages), Entity Framework Core
Tools & Platforms: Git, GitHub, VS Code (Visual Studio Code), Jupyter Notebook
Databases: SQLite, PostgreSQL
Concepts: Responsive Web Design, RESTful API Design, Authentication & Authorization

EDUCATION

The University of Texas at San Antonio - *Bachelor of Science in Computer Engineering*

WORK EXPERIENCE

Linebarger, Goggan, Blair & Sampson
IT Production Analyst | June 2023 - Present | San Antonio, TX

- Organize and manage secure file transfer protocols in the company's proprietary debt collection management software program.
- Authored and updated Production Analyst instructional manuals and task guidelines to streamline workflow between the IT Production Team, Client Support and Contract Management.
- Trained entry-level analysts, improving team efficiency.

Imperium Basketball
Head Basketball Coach | June 2023 - August 2025 | San Antonio, TX

- Coach and mentor club and amateur league basketball athletes, providing extra-curricular instruction to enhance performance.
- Develop individualized skills training programs for athletes seeking advanced, specialized instruction.

Booz Allen Hamilton
Systems Administrator Consultant Intern | June - August 2022 | Annapolis, MD

- Created a scripted automated planning interface (still utilized by Booz Allen Hamilton programmers to date) that assisted U.S. Cyber Command senior leadership in the management and organization of 500+ governmental, international, and civilian partners.

PROJECTS

ERND – Live Web App | https://ernd.app
Solo Full Stack Project | ASP.NET Core, C#, JavaScript, SQLite, PostgreSQL, HTML/CSS

- Designed and launched a mobile-first Progressive Web App (**PWA)** to track workouts (sets, reps, weights, timestamps).
- Integrated **ASP.NET Core Identity** for secure user authentication, allowing for personalized workout tracking and seamless guest-to-user transitioning.
- Engineered **localStorage-based** offline tracking and automatic database syncing server upon login with **RESTful API calls**.
- Crafted a responsive UI using **JavaScript** and **CSS** for smooth user interaction.
- Built **backend** data models for workout sessions, exercises, and set tracking using **SQLite** and **Entity Framework Core**.

Portfolio Website | https://nicholasdkmanning.github.io/Nick-Manning-Portfolio/
Web Development | HTML, CSS, Javascript

- Designed and developed a responsive portfolio site showcasing projects, skills, and work experience.
- Implemented a clean and mobile-friendly layout with intuitive navigation and modern UI styling.
- Deployed via **GitHub Pages**, ensuring fast and easy access to my work.

Covid-19 County Data Collection System
Data Science | Python, Jupyter Notebook

- Created an interactive user management system to collect and store county name and COVID-19 test results using **dictionaries, loops,** and **user input handling.**
- Added a data modification feature which allows users to update county test results with **conditional statements** and **dictionary operations** for real-time data accuracy.
- Developed a color-coded status classification system that categorized counties based on positive or negative COVID-19 case counts using **if-elif-else logic** and **formatted output**.
- Engineered a user-friendly, menu-driven program using **functions, recursion,** and **error handling**.

Book Analysis Project
Data Science | Python, Jupyter Notebook

- Analyzed Charles Dickens' *Oliver Twist* that utilized file handling, **string manipulation,** and **regular expressions (re module)** to load the text file, convert all words to lowercase, and remove specialized characters.
- Utilized **for loops, dictionaries,** and **conditional statements** to count word occurrences, identify unique words, and determine the most frequently used terms in the text.
- Used **Pandas** and **Matplotlib** to visualize the most common words in the novel.