Daniel McCarragher

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PROFESSIONAL SUMMARY

Software Development student at Green River College with strong foundations in Java and JavaScript/Node.js. Passionate about algorithmic problem-solving and programming challenges. Seeking opportunities to apply technical skills to creative projects while collaborating in a team environment that values continuous learning and growth.

EDUCATION

B.A.S, Software Development, Green River College   *Expected Graduation, JUN 2026*

- GPA: 3.9 (High Honors)
- Dean's List: 4x Honoree (Fall 2023, Winter 2024, Fall 2024, Winter 2025)

Relevant Coursework: Data Structures and Algorithms, Database Fundamentals, Full Stack Web Development, Python for Data, Server-Side Web Development, Data Analytics, Systems Programming

SKILLS

Languages: JavaScript, Java, Python, SQL, TypeScript
Technologies: Express, Docker, Node.js, Git, GitHub, HTML/CSS, JUnit, REST API, React, FastAPI, MariaDB, MySQL, PostgreSQL, Electron
Soft Skills: Analytical Thinking, Adaptability, Collaboration, Prioritization, Customer Relations

RESEARCH

Salamander Tracker, In collaboration with The Ohio State University (GitHub)   *APR 2025 – JUN 2025*

Technologies: React, Next.js, Docker, Maven, Java, JavaCV, REST API, Postman

- Developed a full-stack video processing application using Next.js and React for tracking salamander movement through centroid detection and coordinate output.
- Processes video frames using image binarization and graph search algorithms to find connected pixels, identifying the largest matching region and its centroid, with a RESTful API for video processing.

WORK EXPERIENCE

Software Engineer Intern, Nummo   *JUN 2025 – SEP 2025*

- Designed and developed a proprietary .nummo file format using Node.js and TypeScript for packaging financial models with embedded SQLite databases and metadata files.
- Migrated critical backend services from Python FastAPI to Node.js/TypeScript, implementing IPC with comprehensive middleware, error handling, and production-ready logging.
- Implemented enterprise-grade MFA system using WorkOS, featuring TOTP authentication with QR code generation and secure challenge-response verification.

Senior Sales Development Representative, Park Place Properties   *JAN 2022 – JAN 2023*

- Created a program in Python to process real estate transaction forms, automatically separating them into individual files by type, improving data organization and retrieval for buying and selling properties.
- Automation increased efficiency by approximately 200% compared to manual processing.

TECHNICAL PROJECTS

ScaleLog | *MySQL, Express, React, Node.js, JavaScript, Chart.js, REST API* (GitHub)

- A full-stack weight tracking application that allows users to input, manage, and visualize their weight data through interactive charts and logs, with real-time updates and persistent storage.

Trends in Consumption and Performance | *Python, Seaborn, Matplotlib, Pandas* (GitHub)

- Analyzed and visualized trends in cigarette consumption over 40 years and compared city MPG across vehicle makes using Python and Pandas, presenting insights through clear, informative charts.

ACTIVITIES AND LEADERSHIP

Software Development Tutor, Green River College   *SEP 2025 - Present*

- Provide tutoring in Software Development, assisting students with programming concepts and debugging.

Hockey Coach, Pierce County Parks & Rec   *AUG 2024 - Present*

- Focus on player development, promoting skill improvement and sportsmanship.

BoardMasters, Club Member   *SEP 2024 - Present*

- Work with peers to solve weekly LeetCode problems focused on algorithms and data structures.