

Brody Joling

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Education

University of Missouri

Bachelor of Science in Computer Science

Columbia, MO

Aug 2026 – May 2029

Metropolitan Community College

Computer Science and Information Systems Coursework with a 4.0 GPA

Lee's Summit, MO

May 2024 – May 2026

Projects

DNA Visualizer | Python, BioPython, Ursina, PostgreSQL, Git

Sep 2026 – Sep 2026

- Built an interactive human genome visualizer that lets non-specialists navigate all 24 chromosomes (22 autosomes, X, Y) down to their individual base pairs
- Indexed the 3.1 billion base pair GRCh38 human reference genome and a 2GB annotation file with BioPython
- Replaced an initial approach that was estimated to need 250+ GB of RAM, by loading only a fixed section of sequence data around the users position
- Built with a 3-person team in the 36-hour TigerHacks hackathon, collaborating through GitHub

Portfolio Website | Vite, HTML/CSS, JavaScript, Git

Feb 2025 – Jan 2026

- Designed and deployed a responsive portfolio website (brodyjoling.com)
- Bundled and deployed code with Vite on GitHub Pages and Cloudflare Pages
- Built an interactive animated name display using JavaScript
- Tested layouts across mobile, tablet, and desktop browsers

Warmth for All | HTML/CSS, JavaScript, Git

Oct 2025 – Nov 2025

- Built the main pages of an organization website (warmthforall.org)
- Collaborated with a peer to implement server-side functionality including a donation and contact form
- Implemented a responsive layout and style on all pages to ensure widespread accessibility
- Iterated on the website design based on the organization owner's feedback

Experience

Merchandiser

June 2026 – Aug 2026

Pacesetter under Bimbo Bakeries

Independence, MO and Overland Park, KS

- Managed shelves and product displays and across 2 routes serving 9 retail locations
- Drove routes on an independent schedule ensuring proper product availability across all locations

Merchandiser

June 2022 – June 2026

Adam Miler, Independent Route Operator for Pepperidge Farm

Lee's Summit, MO

- Maintained and documented product displays and inventory across 4 major retail locations
- Reported inventory and display conditions to the route operator with consistent communication

Technical Skills

Languages: C#, Python, Java, C/C++, JavaScript, HTML/CSS

Frameworks: Node.js

Developer Tools: Git, GitHub, VS Code, IntelliJ, Unity Engine, Blender, Vite

Leadership and Achievements

Volunteer Work: Pro Deo Youth Center, Robotics Camps

Academic: National Society of High School Scholars (NSHSS), Mizzou Mars Rover Team, Principals Honor Roll, Artist of the Month

Awards: 2nd Place, Advanced Division, 10th Columbia College High School Programming Contest (2026), 3rd Place (2026) and 5th Place (2025) Northwest Coding Competition