RILEY DRCELIK

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EXPERIENCE

Headstarter AI Remote
Software Engineering Fellow Jul 2024 - Sep 2024

- Developed 5 projects over the span of 7 weeks in web development and AI, using various technologies such as RAG, StripeAPI, and NextJS
- Collaborated and networked with other fellows and engineers, forming a team of 4 to create final project, resulting in over 1,000 user sign-ups
- Improved soft skills such as presentation skills through creating demo videos for each project where communication was used to explain and criticize projects

32BJ Benefit Funds Manhattan, NY
Data Engineering Intern Jul 2024 - Aug 2024

- Developed and tested AI models with 90% accuracy using techniques such as XGBoost and Logistic Regression, and analyzed data with heatmaps in Jupyter Notebook.
- Learned about data cleaning, engineering, and feature selection using various methods like Chi-Square, MI, and encoding to improve accuracy from 70% to 90%
- Utilized Azure DevOps and Git to streamline task management and automate workflows, enhancing collaboration and gaining proficiency in managing tickets and deployments

CUNY CiPASS Manhattan, NY
Research Intern Feb 2024 - Jul 2024

- Investigated the relationship between different forces and deformation on different 3D printed samples
- Used Excel to chart data and create graphs, observed a linear trend between force applied and deflection. Noted the differences in Young's Modulus between each sample (1.0-2.0GPa)
- Wrote abstract and created a poster with details of research, including presentation at school-wide poster session

PROJECTS

MyFridge *Next.js, Firebase, Vercel, OpenAI* rileydrcelik.com/engineering/myfridge.html
Developed a dynamic pantry tracker application, enabling users to manage inventory with features like adding, deleting, updating, and clearing items. Implemented search and filter functionalities for easy task navigation, and deployed the application. Enhanced the app with OpenAI API to generate possible recipes based off of current inventory.

Beaver Bot *Arduino C, Inventor, Breadboard, Solder* rileydrcelik.com/engineering/aseebot.html
Line follower robot intended to compete in ASEE 2024 robot design competition. Utilizes a line follower with PID controls to follow designated trail over river completing a loop. While completing the loop IR distance sensors detect stubs on each side activating servos to swipe sticks into the tray. After completing the loop tray is dumped into pond completing circuit.

Personal Website *HTML, CSS, Javascript, Github, Cloudflare* rileydrcelik.com
Developed a personal website using HTML, CSS, and JavaScript. The site features a homepage with links to "About Me" and "Projects" sections, showcasing personal information and various projects. The design includes a structured layout with responsive elements, ensuring accessibility across different devices.

SKILLS

Programming Languages:	C++, Python, HTML/CSS, JS (Next.js, React), MATLAB
Software:	VS Code, Jupyter Notebook, Git, Vercel, Firebase, AWS, Excel, Azure DevOps
CAD Software:	Autodesk Inventor, Fusion 360, Blender, UltiMaker Cura

EDUCATION

Borough of Manhattan Community College Manhattan, NY
AS Engineering Science *GPA: 3.7* Sep 2023 - May 2025 (Expected)

Brooklyn Technical High School Brooklyn, NY
High School Diploma Mechatronics & Robotics Sep 2020 - Jun 2023