

IAN DUNN

Software Developer

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EDUCATION

Rochester Institute of Technology

Aug 2021 – May 2024

Bachelor of Science in Computer Science

Rochester, NY

- Relevant Coursework: Algorithms, Machine Learning & AI, Computer Vision, Database Management, Data Analysis.

EXPERIENCE

RIT Laboratory of Software Design and Productivity

Mar 2023 – Aug 2023

Software Security Team Lead

Rochester, NY

- Developed REST APIs using Spring Boot and JSON/XML manipulation to create and analyze SBOMs.
- Led sprint planning meetings and presented burndown charts for each SCRUM cycle.
- Overhauled back-end unit testing coverage from 25% to 95%.
- Deployed a scalable back-end platform and a custom open-source analysis utility using Docker.

Suburban Driving School

Dec 2019 – Dec 2021

Front-End Web Developer

Fairport, NY

- Redesigned the client's website to enhance content accessibility for senior citizens.
- Managed timely and accurate content updates.

PROJECTS

clipti.me – Personal

Aug 2024 – Sep 2024

- Built a full-stack link shortener using Django, React, and PostgreSQL with token-based authentication.
- Designed REST APIs for CRUD operations, click tracking, and automatic URL redirection.
- Automated deployment to a DigitalOcean server using Docker images and GitHub Actions CI/CD pipelines.

EEG Data Collector – RIT Neurotechnology Exploration Team

Dec 2023 – May 2024

- Created a Tkinter GUI application to capture brain activity in response to audiovisual stimuli.
- Implemented the LSL streaming protocol to synchronize recorded data with 1-millisecond precision.
- Documented the project's usage and scalability for adaptation by other research teams.

Autonomous Parking Simulator – Intro to Artificial Intelligence

Apr 2023

- Constructed a simulator in Python to generate the final state and control histories of a parallel parking car.
- Engineered the agent to avoid obstacles on its own using reinforcement learning without external libraries.

LEADERSHIP

RIT Neurotechnology Exploration Team

Dec 2023 – May 2024

Wheelchair Project Co-Investigator

Rochester, NY

- Pioneered a brain-motor interface project to enable people with motor dystrophy to operate a motorized wheelchair.
- Managed a team of 5 software developers and collaborated with a cross-functional team of mechanical engineers.
- Conducted an IRB-approved human subject research study to collect model training data.

Phi Delta Theta Fraternity

Dec 2022 – Dec 2023

President

Rochester, NY

- Proceduralized chapter operations by developing officer transition manuals to set year-round standards.
- Raised \$10,000+ for the Live Like Lou Foundation over one academic year by expanding campus outreach.

SKILLS

Languages: Bash, C, C#, Java, Javascript/HTML/CSS, MATLAB, MIPS Assembly, MongoDB, PHP, Python, SQL (Postgres)

Frameworks: Angular, Bootstrap, Django, Express, Flask, Junit, Nginx, Node.js, React

Developer Tools: Docker, Git, JetBrains Suite, Trello, Visual Studio

Libraries: NumPy, OpenAI Gym, Pandas, SciKit-Learn