**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.

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| **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.

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| **PROJECTS** |

## **[clipti.me](https://clipti.me/) –** PersonalAug 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 TeamDec 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 IntelligenceApr 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.

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| **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.

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| **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