**IAN DUNN**

**Software Developer**

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| **EDUCATION** |
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## **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** |
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## **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.
* Increased 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** |
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## **MarketSNIPR –** PersonalCurrent

* Implementing a deep reinforcement learning stock trading agent to interact with brokerage APIs.
* Researching TD3 learning in PyTorch to forecast nonlinear time-series data using technical indicators.
* Integrating web scraping to automatically update the algorithm with real-time historical data.

## **EEG Data Collector –** RIT Neurotechnology Exploration TeamDec 2023 – May 2024

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

## **Spotify Statistics Analyzer –** PersonalOct 2022

* Created Express web app using OAuth2 and the Spotify API to access Spotify statistics.
* Summarizes a user’s current, monthly, and all-time listening statistics of songs, artists, and genres.

| **LEADERSHIP** |
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## **RIT Neurotechnology Exploration Team** Dec 2023 – May 2024

## **Wheelchair Project Co-Investigator** Rochester, NY

* Pioneered brain-motor interface project to enable people with motor dystrophy to operate a motorized wheelchair.
* Managed team of 5 software developers and collaborated with a cross-functional team of mechanical engineers.
* Conducted 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.
* Maintained positive relationships with university administration and handled all external affairs.

| **SKILLS** |
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**Technical Skills:** CI/CD & DevOps, End-to-End Project Management, Front-End & Back-End Web Development,   
Research & Development, REST APIs, Software Design & Architecture, Technical Documentation, Unit Testing, Web Scraping

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

**Other:** Angular, Bootstrap, Docker, Express, Flask, Git, GitHub Actions, IntelliJ Suite, JSON, JUnit, Linux, Microsoft Office, Node.js, NumPy, OAuth2, OpenAI Gym, Pandas, React, SciKit-Learn, Spring Boot, Trello, XML