

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.
- 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

MarketSNIPR – Personal

Current

- 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 Team

Dec 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 – Personal

Oct 2022

- Engineered 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

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

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