

# 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

### [clickti.me](https://clickti.me) – Personal

Aug 2024 – Sep 2024

- Built link shortener web app using Django, React and PostgreSQL with token-based authentication.
- Designed APIs for CRUD operations, click tracking, and automatic URL redirection.
- Automated a CI/CD pipeline with Docker and GitHub Actions, deploying to a DigitalOcean server.

### 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.

### Autonomous Parking Simulator – Intro to Artificial Intelligence

Apr 2023

- Implemented simulator in Python to generate the final state and control histories of a parallel parking car.
- Engineered 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 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.

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