**IAN DUNN**

**Software Engineer**

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| **EXPERIENCE** |

## **Mindex** Oct 2024 – Present

**Associate Java Software Engineer** Remote

* Drove a $4M increase in annual client revenue by completing an enterprise-level microservice ahead of schedule.
* Designed a pipeline to process and validate large CSV datasets from AWS S3 into MongoDB.
* Implemented high-throughput Kafka ingestion to produce and consume 500,000 messages in 90 minutes.
* Presented production changes to project stakeholders and documented handoff for client teams.

## **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.
* Deployed a scalable back-end platform and a custom open-source analysis utility using Docker.

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| **PROJECTS** |

## **[outthebasement.com](https://outthebasement.com) –** Out the Basement Toys & CollectiblesMay 2025

* Built a full-stack inventory management system using Spring Boot, React, and PostgreSQL.
* Designed REST APIs for CRUD operations, server-side image storage, and token-based authentication.
* Automated deployment to a DigitalOcean Droplet using Docker Hub and GitHub Actions CI/CD pipelines.

## [**EEG Data Collector**](https://github.com/Neurotechnology-Exploration-Team/DataCollector) **–** RIT Neurotechnology Exploration TeamDec 2023 – May 2024

* Created a Tkinter GUI application to capture brain activity in response to audiovisual stimuli.
* Documented the project's usage and scalability for adaptation by other research teams.

## **[Autonomous Parking Simulator](https://github.com/ian1dunn/CSCI331-DubinsGA) –** 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.
* Conducted an IRB-approved human subject research study to collect model training data.

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| **EDUCATION** |

**Rochester Institute of Technology** Aug 2021 – May 2024

**Bachelor of Science in Computer Science** Rochester, NY

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

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| **SKILLS** |

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

**Frameworks:** Angular, Bootstrap, Django, Express, Flask, JUnit, Kafka, Nginx, Node.js, React

**Developer Tools:** Ant, BitBucket, Confluence, Docker, Eclipse MAT, Git, Jenkins, JetBrains Suite, Jira, OpenShift, Splunk, Trello, Visual Studio, XL Deploy

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