

# IAN DUNN

## Software Developer

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## EXPERIENCE

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### 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.

## PROJECTS

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### outthebasement.com – Out the Basement Toys & Collectibles

May 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 – RIT Neurotechnology Exploration Team

Dec 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 – Intro to Artificial Intelligence

Apr 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.

## LEADERSHIP

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### 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.

## EDUCATION

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### 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.

## SKILLS

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**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