

IAN DUNN

Software Developer

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EXPERIENCE

Mindex

Oct 2024 – Present

Associate Java Software Engineer

Remote

- Implemented Smart Pricing project to drive increased revenue by providing customer churn data to billing APIs.
- Conceptualized and developed pipeline to validate large CSV files in AWS S3 storage and process into MongoDB.
- Developed Kafka consumer to validate and store data between microservices.
- Created comprehensive video demos for stakeholders.

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

clipti.me – Personal

Aug 2024 – Sep 2024

- Built a full-stack link shortener using Django, React, and PostgreSQL with token-based authentication.
- Designed REST APIs for CRUD operations, click tracking, and automatic URL redirection.
- Automated deployment to a DigitalOcean server using Docker images 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

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

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

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, Git, Jenkins, JetBrains Suite, Jira, OpenShift, Splunk, Trello, Visual Studio, XLR

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