

# ADI WIWEKANANDA

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## EDUCATION

### Carleton University

*Bachelor of Engineering in Electrical Engineering (4.0 GPA)*

Ottawa, ON, Canada

September 2019 – April 2024

## EXPERIENCE

### Front-End Software Developer Intern

*Ericsson*

May 2022 – August 2023

*Ottawa, ON*

- Spearheaded the development of the Ericsson Indoor Planner webapp using React with TypeScript, increasing type safety and reducing runtime errors by 25%
- Collaborated with back-end developers to integrate RESTful APIs that fetch and display dynamic content, such as real-time data updates and user-generated content
- Architected a centralized state management system using Redux, enhancing data handling and reducing prop drilling for complex application states
- Initiated and enforced a code quality protocol by introducing a pre-commit hook that leverages Prettier CLI to format code, ensuring consistent coding styles across the team's contributions
- Conducted research and leveraged Azure Active Directory (AD) features to design a scalable authentication solution compatible with existing organizational infrastructure
- Organized and delivered a presentation to educate stakeholders on the latest front-end technologies, industry trends, and project operations to a large audience (>200 people)

### Telecommunications (Data) Engineering Student

*Canadian Radio-television and Telecommunications Committee*

May 2021 – August 2021

*Gatineau, QC*

- Developed Python scripts to automate the cleansing and transformation of large data sets, improving processing efficiency by 30%
- Developed an automated script using Python and TShark (the command-line interface for Wireshark) to capture and analyze network packet data, enhancing the organization's network monitoring capabilities

### Teaching Assistant

*Carleton University*

September 2020 – April 2021

*Ottawa, ON*

- Conducted weekly lab sessions that reinforced ECE course material (Linux, Python) through hands-on programming exercises, resulting in a 10% increase in average student project scores.

## PROJECTS

### NBA Statistics Web Application | *React, Node.js, Express.js, MongoDB, Heroku*

October 2023 – Present

- Developed a full-stack web application providing real-time NBA statistics, player profiles, and the ability to create and manage fantasy basketball teams
- Crafted robust back-end logic to connect with the balldontlie API using Axios, facilitating real-time retrieval of player stats and historical data for fantasy team performance analysis
- Developed a MongoDB schema to store user profiles and fantasy teams, enabling users to save and modify their selections with real-time updates as player stats changed

### Personal Portfolio Website | *React.js, Redux*

October 2023 – Present

- Leveraged React to build a scalable and maintainable single-page application (SPA), ensuring a seamless user experience with dynamic content updates.

### Hand Motion-Controlled Vehicle | *Arduino, C++, Accelerometer, Wireless Communication*

Winter 2022

- Led the development of C++ code for both the transmitter and receiver circuits of a motion-controlled car
- Resolved coding challenges related to data synchronization, sensor data interpretation, and motor control algorithms

## TECHNICAL SKILLS

**Languages:** JavaScript (TypeScript), Java, Python, C/C++, SQL, C#, MATLAB

**Frameworks/Libraries:** React, Flutter, Jest, Redux, Node.js, Express, JUnit, Material-UI, FastAPI, Puppeteer, pandas, NumPy, Matplotlib

**Developer Tools:** Git, Jira, MongoDB, Jenkins, Shell Scripting, VS Code, IntelliJ

**Platforms:** Linux, Microsoft Azure, Amazon Web Services, Docker