

# Emmanuel Appiagyei, BSc., MAsc.

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LinkedIn: <https://www.linkedin.com/in/wdappiagyei/> | GitHub: <https://github.com/WDverse>

Portfolio: <https://wdappiagyei.netlify.app/>

## PROFESSIONAL SUMMARY

Software developer with 2 years of hands-on experience building and deploying web applications using HTML, CSS, JavaScript and the MERN stack. Created a production-ready website that improved accessibility by 50% and user engagement by 30%. Passionate about solving problems, learning new technologies, and contributing to open-source projects.

## TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, SQL, NoSQL
- **Frontend Development:** ReactJS, Tailwind CSS, Bootstrap, HTML5, CSS3, HandlebarsJS, jQuery, DOM Manipulation
- **Backend Development:** NodeJS, ExpressJS, RESTful APIs, GraphQL, MVC architecture
- **Databases:** MongoDB, PostgreSQL, MySQL, Sequelize ORM, Mongoose
- **DevOps & Tools:** Git, GitHub, API Testing (Postman, Insomnia), Unit Testing (Jest)
- **Cloud & Deployment:** Heroku, Microsoft Azure
- **Other:** WordPress (custom themes/plugins), Accessibility (WCAG 2.1 compliance), Agile/Scrum methodology

## PROFESSIONAL EXPERIENCE

### Junior Picker

#### Boone Plumbing and Heating Supply Inc. | Ottawa, ON | December 2024 – Present

- Achieved a high level of accuracy (~95%) in picking and packing across 1,000+ inventory items, reducing costly order errors.
- Coordinated with cross-functional teams to ensure 100% on-time delivery of daily shipments.
- Selected to operate specialized picking machinery due to proven ability to learn quickly and fulfill orders on time.
- Achieved an average of 200 picks per shift.
- Assisted the express customer service department in fulfilling customer orders on time.

#### Freelance Full Stack Developer | November 2023 – Present

- Contributed to open-source libraries, submitting Pull Requests to improve documentation and fix software defects.

#### Website Developer (Contract) | [Live Link](#)

#### Carleton University – TIM Department | Ottawa, ON | February 2024 – May 2024

- Recognized for quality work done and earned a LinkedIn recommendation from the Program Administrator.
- Redesigned and deployed the TIM department website using WordPress, improving user engagement by 30%.
- Performed accessibility audits and upgraded the platform to WCAG 2.1 AA compliance, improving accessibility by 50% and ensuring full accessibility for all users.
- Collaborated with the Program Administrator to prioritize and deliver features.

- Achieved a 10% SEO improvement due to increased accessibility.

## **PROJECT EXPERIENCE**

### **Workday Scheduler | [GitHub](#) | [Live Link](#)**

- Built a daily planner with dynamic time blocks (9 AM – 5 PM) and a live date header, helping users organize their workday.
- Implemented persistent event storage with Local Storage, enabling schedules to be saved and reloaded across sessions.
- Tools: jQuery, JavaScript, HTML5, CSS3

### **Employee Tracker | [GitHub](#) | [Demo Video](#)**

- Built a command-line application for managing employee records using Node.js, Inquirer, and MySQL.
- Implemented functionality to view, add, and update employees, roles, and departments, streamlining database interactions.
- Tools: JavaScript, Node.js, Inquirer.js, MySQL

### **Note Taker | [GitHub](#) | [Live Link](#)**

- Developed a full-stack note-taking application with an Express.js backend that saves and retrieves user notes from a JSON file.
- Implemented CRUD functionality to manage notes, improving usability and persistence of user data.
- Tools: Node.js, Express.js, JavaScript, HTML5, CSS3, Bootstrap, Heroku

## **EDUCATION**

### **Master of Applied Science, Technology Innovation Management**

#### **Carleton University | Ottawa, ON | September 2022 – February 2025**

- Investigated Agile software development challenges, producing a guide for developing a diagnostic tool capable of managing challenges in Agile software development teams. ([Link to thesis](#)).
- Succeeded in defending thesis with only minor revisions.
- CGPA: 10.5/12

### **Certificate in Full Stack Web Development**

#### **Carleton University | Ottawa, ON | April 2023 – October 2023**

- Completed an immersive, project-based bootcamp in JavaScript, React.js, Node.js, MongoDB, SQL, REST APIs, and Agile workflows.
- Built and deployed full-stack applications (with authentication, API integrations, and database management) to Heroku.
- Performed Agile workflows, version control with Git/GitHub, and collaborative development.

### **Bachelor of Science in Biochemistry and Biotechnology**

#### **Kwame Nkrumah University of Science and Technology | Ghana | September 2015 – June 2019**