

# Obaleye Ademola

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## **EDUCATION**

University of Saskatchewan – **Computer Science (Third year)**

September 2022 - Current

**Relevant coursework:** OOP in java and python, Data Structures & Algorithms, Computer Architecture, Linear Algebra, Calculus 1 & 2, Intermediate Software Engineering, Full Stack Web Programming.

## **SUMMARY OF SKILLS**

- Proficient in Java, JavaScript, Python, C, HTML/CSS, Bash, and RISC-V Assembly.
- Experienced with full-stack development, RESTful APIs, Sequelize ORM, JWT authentication, and react.
- Applied OOP, design patterns, and UML modeling in building scalable, modular systems.
- Familiar with cybersecurity, data analysis, and machine learning (e.g., Naive Bayes, cross-validation).
- Worked in Agile development environments, participating in sprints, stand-ups, and iterative delivery cycles.
- Skilled in Git, IntelliJ, VS Code, and PyCharm; comfortable with version control and team collaboration.
- Strong interpersonal and communication skills, demonstrated through team-based academic and software projects.

## **Work Experience**

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### **Landscaper | Ash & Alder**

Summer 2024

- Installed irrigation systems for gardens and yards.
- Built and renovates stone pathways, patios and ledges.
- Performed routine lawn and grounds maintenance tasks regularly.

### **Research Assistant | Flutter Wave**

August 2021-December 2021

- Analyzed data and created reports with actionable insights for executive-level decision-making.
- Designed hypothetical pitch decks for product innovations, demonstrating creativity and business expertise.
- Collaborated closely with project leaders to adapt to changing research objectives and timelines.

### **IT Intern | MTN Nigeria**

January 2021 – August 2021

- Supported and shadowed the IT team with hardware and software setup, troubleshooting, and maintenance.
- Contributed to cybersecurity initiatives and aided with data center operations.
- Configured and deployed computer systems for new users, ensuring operational readiness.

## **PROJECTS**

### **Study Hub | Java, Vaadin, Spring Boot, JPA, Git**

- Engineered a productivity platform featuring notes, folders, flashcards, and calendar scheduling with persistent data syncing.
- Implemented advanced search and filtering logic with Vaadin Flow, enhancing real-time responsiveness and usability.
- Integrated FullCalendar to support draggable study sessions, visual reminders, and event editing.
- Applied software testing techniques including unit, integration, and acceptance testing to ensure reliability and alignment with user stories.
- Collaborated using Git for version control and Figma for UI prototyping, maintaining design consistency and team synchronization.

### **Channel-Based Posting Platform | JavaScript, Node.js, React, MySQL**

- Designed and built a full-stack forum-style platform for programming discussions with channel-based message organization.
- Implemented features including user authentication, role-based access, message creation, threaded replies, and media uploads.
- Developed admin tools for managing users and content and integrated a dynamic search system with filters for messages, users, replies, and channels.
- Leveraged Sequelize ORM, RESTful APIs, JWT authentication, and React state management to ensure scalability and security.

### **Model Residence System | Java, JavaFx**

- Implemented a residence management system leveraging OOP concepts like encapsulation, polymorphism, and inheritance for efficient code architecture.
- Utilized design patterns (Singleton, Factory, Command) to enhance code modularity and maintainability.
- Created UML diagrams (class, sequence, use case) to visually represent system architecture and workflows.
- Used Git for version control, allowing for efficient collaboration and tracking of changes throughout the development process.

### **Malicious URL Detector | Python**

- Developed a cybersecurity tool using Multinomial Naive Bayes to detect malicious URLs, achieving high accuracy rates.
- Conducted rigorous performance evaluations with cross-validation and confusion matrix analysis.
- Integrated a feedback loop to update the model, enhancing adaptability to emerging threats.

## **CAMPUS INVOLVEMENT**

### **Vice-Captain of a Futsal Team | “The Zeal Team”**

- **Motivating the team:** One key role of the vice-captain would be to help motivate and inspire my teammates.
- **Communication:** Relayed information from the captain to the rest of the team, provided feedback to individual players, and ensured everyone was on the same page and being present during team meetings.
- **Team organization:** I was responsible for organizing team meetings, helping to plan practices and games, and making sure that everyone knew their roles and responsibilities on the team.

## **References:**

References available upon request