

# FELIX NUWORSU

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## EDUCATION

**Grambling State University**, Grambling, Louisiana

**Graduating May, 2028**

- **Major:** Bachelor of Science in Computer Science
- **Relevant Coursework:** Intro to Computing Using Python, Calculus I
- **Awards/Honors:** Academic Achievement Award, Grambling State University

## WORK EXPERIENCE

**ShadowFox, Software Engineer Intern** | Backend API and database team

**May 2024 - July 2024**

- Implemented and optimised 10+ REST APIs using Java and the Spring Boot framework to improve data retrieval times by 30% and enhance overall application performance.
- Collaborated with the database team to streamline SQL queries and improve data retrieval efficiency, resulting in a 20% reduction in server load and faster response times for end-users.

**The CKODON Foundation, Software Engineer Intern** | Backend API team

**Jan 2024 - Present**

- Engineered comprehensive CRUD functionalities for the CKODON college application platform's API, reducing data retrieval time by 40% and enhancing user experience for over 1,000+ applicants annually.
- Implemented error logging using sentry.io which improved bug detection by 40%; set up Slack alerts to notify team when error thresholds exceeded, enhancing response time by 50%.

## RELEVANT PROJECTS

**Book Store Management System** | Spring Boot, MySQL, Bootstrap, HTML

- Developed a full-stack Book Management System using, implementing three secure RESTful APIs for efficient Create-Read-Update-Delete operations.
- Engineered a responsive user interface with React, ensuring seamless client-server communication and an enhanced user experience

**JS Collision Avoidance System** | Node.js, HTML, CSS, Neural networks

- Developed a self-driving car simulation, leveraging neural networks for real-time decision-making and navigation.
- Engineered a custom neural network from scratch to process sensory data and control vehicle movements, achieving accurate obstacle detection, obstacle avoidance and path planning.
- Optimised the neural network training process with JavaScript, ensuring efficient performance and robust self-driving capabilities through continuous learning and adjustment.

**Dynamic Web Scraping and Data Processing Tool** | Node.js, Cheerio, Request-promise, HTML5, CSS

- Developed an efficient web scraping tool, leveraging the Cheerio and Request-promise libraries to extract and process data from multiple websites into a data table.
- Engineered a robust scraping mechanism with Node.js, handling dynamic content and implementing error handling to ensure data accuracy and reliability.

**Youtube Bookmark Chrome Extension** | HTML, CSS, Javascript, Manifest 3.

- Developed a Chrome extension for bookmarking, saving, playing, and deleting timestamps in YouTube videos, with offline access and management capabilities.

## SKILLS AND PROFICIENCIES

- **Programming Languages:** Java, JavaScript, Python, SQL
- **Experience with:** Spring Boot, React, HTML, CSS, Node.js, Express, Flask, Django, MySQL, PostgreSQL, Django, React Native, Postman API, Scikit-learn, OpenCV, Git, GitHub, Firebase

