# OLUWATOSIN JOEL AJAKAYE

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## EXPERIENCE

**Research intern, Carleton University**                                    **May 2024 — ongoing**
- Assisting Dr. Safaa Bedawi on projects on the topics of **compiler construction, computer vision and neural networks**.

**Consulting Mentorship Program, Accenture**                        **June 2023 — August 2023**
- Engaged in a mentorship program focused on **technology and finance** at Accenture.
- Actively attended **workshops** on focused on financial engineering and participated in **case studies**.
- Acquired hands-on experience and deepened understanding in the **intersection of technology and finance**.

**Intern, Vitract (biotech)**                                                **May 2023 — August 2023**
- Undertook an internship at Vitract to contribute to **web optimization (nodejs/javascript) and data analysis(prolog)**
- Reduced monthly instance request costs by **47%** through **web and server hosting optimization**
- Utilized **SWI-Prolog to parse and merge data**, then used **python to properly test implementations**

**Project team leader and mentor, SCESOC**                        **September 2021 — ongoing**
- Improved team productivity by **90%** through automating data generation using **LDAP API**
- Facilitated bi-weekly **tutorials** and **workshops** for club members and attendees
- Assisted and mentored new students in transitioning to a productive university lifestyle

**Information Technology Intern, Nahco Aviance**                        **April 2021 — July 2021**
- Accepted **IT internship** duties at Nahco Aviance, focusing on **IT systems setup** and contributing to **website development**.
- Played a key role in **setting up and maintaining IT systems**, including **backend API development** for event services, and participated in efforts to **enhance website security**.
- Assisted in establishing a reliable **IT infrastructure**, supporting online event services through **backend API development**, and contributed to **bolstering website security measures**.

## EDUCATION

**Carleton University, Major(s): Software engineering and Business**        **September 2020 — ongoing**
**Vector Institute: AI workshop student**                                **2023 — 2023**

## PROJECTS

### CodeX
- Designed, developed, and maintained **CodeX**, a browser extension enabling users to convert source code to a text file format directly within web browsers.
- Leveraged **HTML, CSS, and JavaScript** to create an intuitive user interface and integrate advanced features such as syntax highlighting and file saving options.
- Conducted thorough **manual testing** and **automated testing** procedures to verify the **functionality, usability, and compatibility** of the CodeX web extension across various browsers and environments.

### ETL Data Pipeline for financial data analysis
- Implemented a data pipeline for retrieving financial data from the **Quandl Dataset** at predefined intervals.
- Utilized **PySpark** for efficient data processing and employed **Plotly** to generate informative visualizations.
- Defined **data retrieval intervals**, designed **data processing workflows**, and **implemented visualization features**.

### Open AI API code Refractor
- Developed an AI-powered tool using **Open AI API, tensorflow and python** to **refactor code**, enabling simultaneous analysis of multiple code parameters.
- Investigated **code quality metrics** and identified potential areas for improvement, leveraging **AI algorithms**.
- Launced a tool that **enhanced code quality**, identified optimization opportunities, and improved overall codebase efficiency.

### Charted
- Developed a comprehensive **financial analysis and recommendation app** for iOS, using **swift, swiftUI and xcode**. Focusing on user-friendly design and personalized insights.
- Designed a **user-friendly interface**, integrated **calculation algorithms**, and provided **personalized insights**.
- Built the app iteratively, integrated calculation logic, and **implemented python test scripts** to properly test the application's functions

## SKILLS

- **Programming languages:** Java, python, C, Swift, R, SQL ,JavaScript , CSS, HTML, PHP
- **Soft skills:** Problem solving, teamwork, Collaboration, Consistency, Leadership, Communication
- **Software Tools:** Xcode, RStudio, Jupyter Notebook, Git, REST API, JSON
- **Engineering techniques:** Unit testing, Test-Driven Development (TDD), Agile Methodologies, Code review and Collaboration, Design Patterns, Debugging profiency, documentation.