

# DANIEL T. NWACHUKWU

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## Education

### Carleton University

September 2020 – December 2024

*Computer Science Honors (Co-op) with Minor in Statistics*

*Ottawa, ON*

- CGPA: **11.33/12 (A+)**
- Co-op availability: 4 or 8 months, beginning May 2024

## Technical Skills

**Languages:** JavaScript, Java, C, C++, Python, Swift, Haskell, Prolog

**Technologies/Frameworks:** AWS S3, AWS EC2, AWS Lambda, Spring Boot, Ansible, Docker, Kubernetes, Linux, Kafka, SQL, React, React Native, Node.js, Express.js, MongoDB, Jest, React Testing Library, Prometheus, Grafana, Kafka, Gitlab CI/CD, InfluxDB, Vector

## Work Experience

### Teaching Assistant

September 2023 – Present

*HTML, CSS, JavaScript, Node.js, Express*

- Leveraged my experience in **HTML**, **CSS**, **JavaScript**, and **Node.js** as a teaching assistant for a second-year **web development** course
- Assisted students through **tutorial sessions** in grasping fundamental web development concepts, **troubleshooting** code, and fostering a **collaborative** learning environment
- Graded assignments and provided **comprehensive feedback** to students, promoting a deeper understanding of course material and facilitating academic growth

### Shell Plc - Web Developer

January 2023 – May 2023

*Node.js, Express, Pug.js, Jest*

- Developed a **full-stack web application** to effectively solve a room management challenge for offshore workers, resulting in substantial **time savings** and enhancing **operational efficiency**
- Implemented secure user **authentication** and **authorization** with **Bcrypt** and **JWT**, restricting critical actions to only be allowed by **authorized** users
- Automated manual Microsoft Excel processes with web application, cutting check-in and out times by **97%** and achieving **95%** overall time savings for room management tasks
- Attained an **80% test coverage** using the **Jest** framework to ensure robustness and functionality across application logic and components

### Searidge Technologies - Software Developer

May 2022 – December 2022

*JavaScript, Mocha, Jest, Prometheus, Grafana, GitLab CI/CD*

- Utilized **Mocha** and **Jest** to attain **85% unit test coverage** across **Data API** and **React** applications, and set up **CI/CD pipelines** with **Gitlab CI** for **automated code quality** checks
- Implemented a cost-effective metrics monitoring solution for the company's applications using **Prometheus** and **Grafana**, reducing the company's costs on monitoring software by over **80%**
- Utilized **Docker** and **Kubernetes** for efficient deployment and orchestration of **Prometheus** and **Grafana** containers, resulting in enhanced **scalability** and **operational efficiency**
- Leveraged **Helm Charts** to deploy the applications onto a **Kubernetes** cluster, enabling easy management, scalability, and portability of the monitoring infrastructure

## Projects

### Instagram Clone Mobile Application [🔗](#)

- **Led** the end-to-end development of a dynamic mobile app closely mimicking **Instagram**, using **React Native** for a robust and responsive user interface
- Seamlessly integrated application with **Amazon S3** for efficient image storage and retrieval, and harnessed the power of **MongoDB** on the **back end** to manage user data, resulting in an impressive user experience
- Implemented a comprehensive testing strategy using **Jest** for unit and component testing, ensuring robust code quality and producing an **80% test coverage**