

# BLESSY PRIYANKA RAMPOGU

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## Education

### Carleton University

September 2022 – June 2026

*Computer Science, Artificial Intelligence and Machine Learning (Honors)*

*Ottawa, ON*

- **CGPA: 10.0/12 (A-)**
- **Relevant Coursework:** Web Development, Data Structures and Algorithms, Discrete Structures, Introduction to Object-Oriented Software Engineering

## Technical Skills

**Languages:** C, C++, Java, JavaScript, Python, HTML, CSS

**Databases:** MongoDB, MySQL, SQLite, PostgreSQL

**Frameworks/Libraries:** Express.js, Next.js, Node.js, React.js, Tailwind CSS, Pandas, NumPy, SDL

**Developer Tools:** Visual Studio, PyCharm, IntelliJ, Eclipse, Git, GitHub Copilot

**Tools/Environment:** AWS, Linux, Oracle Virtual Box

## Work Experience

### Amazon Web Services - AWS Cloud Engineer Assistant

May 2022 – August 2022

*AWS, Amazon EC2*

- Led the design and implementation of a scalable architecture on **AWS**, utilizing **Amazon EC2**, **Auto Scaling**, and **Elastic Load Balancing** to ensure seamless handling of variable workloads
- Implemented a cost-effective metrics monitoring solution using **Prometheus** and **Grafana**, reducing costs on monitoring by over **80%**
- Implemented performance monitoring tools and conducted regular assessments to identify and resolve bottlenecks, resulting in a **20%** improvement in system scalability and responsiveness.

### Carleton University - Teaching Assistant

September 2023 – December 2023

*Python, Pandas, SQLite*

- Leveraged my experience in **Python** as a teaching assistant for an Introduction to Computer Science course
- Strengthened leadership abilities by actively collaborating with the teaching team to deliver precise content on Python and Database Management Systems (DBMS) to students
- Demonstrated strong **problem-solving skills**, taking proactive measures to prevent issues ahead of time and providing creative solutions when challenges arise
- Graded assignments and provided comprehensive feedback to students, promoting a deeper understanding of course material and facilitating academic growth

### Freelance - Programming Tutor

September 2023 – Present

*Java*

- Utilized my **verbal and written communication skills** by assisting first year students with Computer Science introduction courses using Java
- Delivered **technical support** for computer systems, hardware, and software to enhance student performance

## Projects

### Food Delivery Service Web Application 🔗

**Tools:** Node.js, Express.js, MongoDB, Handlebars

- Developed a CRUD food delivery service web application that enables users to place food orders
- Implemented a REST API using Node.js and Express.js, as well as Handlebars for rendering 5+ pages
- Executed UI updates on API responses using DOM manipulation in Javascript and HTML
- Implemented extensive error handling to validate POST and PUT request bodies from the client side

### Food Delivery Service Web Application 🔗

**Tools:** Node.js, Express.js, MongoDB, React.js

- \* Developed an e-commerce platform with **React**, **Express.js**, and **MongoDB** for seamless online shopping experiences
- \* Engineered a **RESTful API** with **Express.js** and **MongoDB**, optimizing data handling for efficient client-server communication
- \* Implemented secure user authentication using **JWT** and **Bcrypt**, enhancing data protection for the web application