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 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