GARRY MITTAL

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Technical Experience

Ultimate Coders **December 2022 − Present**
Coding and Robotics Instructor *Scarborough, Canada*

- Experienced computer science instructor with a focus on Python programming and Arduino electronics, teaching students from SK to Grade 12.
- Skilled in creating engaging lesson plans, imparting syntax and logic, and guiding hands-on Arduino projects.
- Witnessed students enhance problem-solving abilities, gain confidence, and acquire practical programming and electronics knowledge.

Delhi Metro Rail Corporation **May 2020 − July 2020**
Electronics and Computing Intern *New Delhi, India*

- Enhanced metro rail operations as an electronics and computing intern at DMRC, spearheading the design and implementation of electronic systems for train control, surveillance, and communication.
- Led the development of software applications crucial to metro operations, applying advanced problem-solving skills and collaborating closely with senior engineers.
- Crafted and executed complex prototypes, pivotal in troubleshooting and optimizing electronic systems.

Projects (Portfolio)

Absentees Record WebApp | HTML, CSS, JavaScript, React, RestAPI
- Developed a dynamic form component in React, implementing error handling for empty fields and radio button selection, ensuring data integrity before submission.
- Integrated Google Sheets API to securely store form data in real-time, enabling efficient tracking and management of absentee information.
- Deployed dynamic React form with error handling and Google Sheets API integration for absentee data collection at Ultimate Coders, enhancing administrative efficiency and data tracking.

Staff Management Backend app | Java Swing,JDBC utility, MySQL
- Developed a Java-based GUI application for managing staff information.
- Leveraged JDBC to establish a connection to a SQL database, ensuring seamless CRUD operations.
- Demonstrated problem-solving skills through error handling, data validation, and real-time updates, contributing to streamlined staff information management.

Games Builder | Python, Tkinter
- Designed and developed game mechanics, game board, and user interface using Tkinter, integrated game logic into GUI,
- Successfully delivered Shuffle Block and Noughts and Crosses game project, providing an easy-to-use and enjoyable gaming experience.

Smart Mask | C-programming, ESP Module Programming, Circuit Designing
- Led firmware development for a smart mask project, ensuring precise social distancing and mask-wearing detection using sensors and microcontrollers.
- Collaborated with hardware engineers, integrated firmware seamlessly, and conducted thorough testing.
- Recognized with "Best Project of the Year 2021" award at university convocation for impactful results.

Technical Skills

Languages/Database: Java, Python, Data Structures, MySQL
Web Technologies and Framework: HTML, CSS, JavaScript, React, NodeJS, Express
Version Control: GitHub

Education

Humber College, Toronto **April 2024**
Post Graduate Diploma in Information Technology Solutions *GPA: 91.6/100*
Coursework: Java, Python, JavaScript, React, NodeJS, Data Structure, Design Patterns

The Northcap University, Gurugram, India **July 2021**
Bachelors of Technology in Electronics and Communications *GPA: 75/100*
Coursework: C- Programming, Microcontroller Programming, Antenna Designing

Additional Experience

Exceptional children trainer: Certified Trainer for Autistic Children, equipped with specialized skills in designing and implementing tailored learning programs that foster cognitive and emotional development.