Ravneet Singh

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PROFESSIONAL SUMMARY

Motivated and results-driven individual, always striving to polish and upgrade my skillset. I can adapt and learn newer concepts very quickly. I have strong foundation in Computer Science concepts with strong base in languages such as C, C++ and Python including some extended modules in python such as Django, Neural Networks, NLP, Pygame. As a tech fanatic, I admire and closely follow the tech industry.

TECHNICAL KNOWLEDGE

Python

Java

Pandas

HTML\CSS
API\Web API

• CI\CL

Jira

 Matplotlib Server

 Flask SQL

• PyGame

• Machine Learning • Git C \ C++

Robot Framework

Management

MVC

• Natural Language **Processors**

PROFESSIONAL / EDUCATIONAL PROJECTS:

Multiplayer Chess Game in Python

Final Year Project For Undergraduate Degree

Jan 2022 - March 2022

- Developed a fully functional multiplayer chess game using Python, allowing two users to play over the same local IP.
- Utilized the 'Pygame' library, implemented the complete logic for chess moves, including rule validation, checkmate, and stalemate detection.
- Designed a server-client architecture to enable real-time communication between players on the same local network.
- Gained a deep understanding of Application Programming Interfaces (APIs) and socket programming for network communication.
- Learned networking concepts, including IP addressing and local network configuration.

Image Caption Generator

Aug 2023 - Nov 2023

Developed For IT-Code Fair 2023

- Developed an image caption generator in Python.
- · Used CNNs with ResNet for feature extraction.
- Used LSTM (Long Short Term Memory) for caption generation.
- Trained the model on the Flickr8k dataset with preprocessing steps like image normalization and caption tokenization.
- Transfer learning by fine-tuning ResNet pre-trained on ImageNet, enhancing model accuracy.
- Integrated the model into a Flask-based web application, allowing users to upload images and receive captions.
- Deployed the application on Microsoft Azure, ensuring scalability and high availability.
- Gained hands-on experience with cloud deployment, including Azure VM configuration and load balancing.
- Awarded the "Digital Experience Award" at the IT Code Fair for innovation and technical execution.

SKILLS

- Conflict Resolution
- Decision-Making Skills
- Critical Thinking
- Team

Collaboration

- Time Management
- Creative Thinking
- Self-Motivation
- · Strong Problem-Solving Abilities
- Attention to Detail
- · Adaptability and **Quick Learning**

CERTIFICATIONS:

Principles of C\ C++

Concepts: OOP, Recursion, Loops and Memory Allocation Jun'20 - Jul'20 Modern Institute of Advance Education, Nawanshar

Python Essential Training

LinkedIn Learning

EXTRACURRICULAR ACTIVITIES

Leader, SNIT Club

Sikh National College, Banga

EDUCATION

MASTERS OF IT (SOFTWARE ENGINEERING)

Charles Darwin University | Jul, 2023 - Present

ACHIEVEMENTS

WINNER IT CODE FAIR - 2023 | DIGITAL EXPERIENCE AWARD

- Won my first IT Code Fair, receiving praise for innovation and practical application.
- Received appreciation from company representatives for the project's technical strength and potential real-world impact.
- Explained the project with such simplicity that even non-technical individuals were able to grasp the concept.

REFEREES

References are available on request.