

Ferit Akyıldız

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Education

Ankara Yıldırım Beyazıt University

Sep 2022 – Now

BS in Computer Science

- GPA: 2.94/4.0
- **Coursework:** Computer Architecture, Data Structures & Algorithms, Computational Theory, Computer Graphics, Information Security & Privacy

Experience

Sales Person

Virginia Beach, VA

Hollywood Pictures

June – September 2024

- Engaged with customers to promote and sell Hollywood Pictures products, enhancing brand visibility and customer experience.
- Provided personalized recommendations based on customer preferences, increasing sales and customer satisfaction.
- Developed strong communication and negotiation skills through daily interactions with diverse clientele.

Projects

Multiprocessed Battleships Game

- Developed a Battleships game leveraging multiprocessor capabilities, where the computer autonomously played against itself through inter-process communication between parent and child processes.
- Implemented efficient process synchronization and resource management to enhance game logic execution.
- **Tools Used:** C, Linux Process Management

Audio Processing Program

- Developed a Python-based audio processing program that receives input via microphone or audio file and visualizes the audio's frequency spectrum using SciPy.
- Implemented real-time signal processing features allowing users to increase/decrease bass, add echo, and apply reverb effects.
- Utilized Librosa for spectral transformations and audio filtering, along with Matplotlib for real-time visualization.
- **Tools Used:** Python, Librosa, SciPy, Matplotlib, PyAudio

CBC-EBC Encryption

- Developed a Java-based image encryption program that applies ECB (Electronic Codebook) and CBC (Cipher Block Chaining) modes on grayscale images.
- Implemented custom block-based encryption using XOR operations, with dynamic handling of pixel data and random initialization vectors for CBC mode.
- Automated image reading, block-wise encryption, and saving of the encrypted outputs using Java's Buffered-Image and ImageIO libraries.
- **Tools Used:** Java, BufferedImage, ImageIO

Achievements

- Honor Student at Ankara Yıldırım Beyazıt University (2022, 2023)
- Completed a Summer Photography Apprenticeship in the U.S., working for Hollywood Pictures (June – September 2024)

Technologies

Languages: C++, C, Java, Python, SQL, JavaScript, Flutter

Others: Adobe Photoshop, Blender, LINUX, MS Office