

Enes Polat

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EDUCATION

Toronto Metropolitan University

Toronto, Ontario

Bachelor of Science in Computer Science, Honours

SKILLS

Languages: Java, Python, C/C++, PERL, Bash, JavaScript, HTML/CSS

Frameworks: React, Django

Developer Tools: Git, Visual Studio, Linux/UNIX, PyCharm, IntelliJ IDEA

Soft Skills: Teamwork, Communication, Attention to detail, Networking

Selected PROJECTS

RSA Public-Key Encryption and Signature / C, OpenSSL

Nov 2024

- Developed programs to derive RSA (Rivest–Shamir–Adleman) keys, encrypt/decrypt messages, and create/verify digital signatures, gaining practical experience with public-key cryptography
- Applied RSA principles to authenticate certificates and understand digital signature vulnerabilities, enhancing understanding of asymmetric encryption

Secret-Key Encryption / Python, OpenSSL

Oct 2024

- Conducted encryption and decryption tasks using AES (Advanced Encryption Standard) and CBC (Cipher Block Chaining) modes, understanding their implications on security and vulnerability to different attack methods
- Analyzed the effect of padding and IV (Initialization Vector) reuse, showing awareness of encryption best practices and common pitfalls
- Compared ECB (Electronic Codebook) and CBC modes through image encryption, identifying potential weaknesses and security patterns in data encryption.

Spectre Attack / C, C++

Nov 2024

- Implemented and explored the Spectre attack, focusing on speculative execution vulnerabilities in CPU architecture to access restricted memory
- Demonstrated proficiency in side-channel analysis techniques, using cache timing differences to identify protected data
- Improved attack reliability by adjusting parameters, showcasing a deep understanding of hardware-based attack vectors

Snake Game / Python

May 2024

- Designed an interactive game using Pygame, utilized Object-Oriented Design, Modules and Libraries, Data Structures, Control Flow, File I/O, Error Handling

Flappy Bird / Java

April 2024

- Developed a Flappy Bird game utilizing Swing for graphical interface and OOP for game logic

ChatGPT Survey / Python

Sept 2023

- Developed a Python project utilizes the Pandas library for data manipulation and Matplotlib for data visualization, Data Analysis, Text Annotations, File handling

Audio App Simulator / Java

April 2023

- Designed and implemented a Java-based text-driven music store application, implemented object-oriented programming, such as encapsulation, inheritance, polymorphism and so on

EXPERIENCE

Starbucks Part-Time

March 2023 – Current

Barista

- Collaborated with a multidisciplinary team to deliver customer needs
- Managed time effectively and solved unexpected issues during high-demand hours

Team Leader

May 2010 – Aug 2012

TEMA Foundation

- The Foundation for Combating Soil Erosion, is an organization for reforestation and the protection of natural habitats
- Organized community engagement events, fostering an environment of adaptability among members