TEODOR ANDREI GEORGESCU

Coquitlam BC Canada
georgescu.t.andrei@gmail.com | (604)-441-7182
www.linkedin.com/in/andrei-georgescu-0051762a0
https://github.com/Teodor-Andrei-Georgescu/Teodor-Andrei-Georgescu

SUMMARY

A distinguished Computer Science and Health Information Science (HINF) student from the University of Victoria with a strong academic background. My proficiency in Python, Java, SQL, C, and Assembly languages coupled with a foundational understanding of hardware and electrical systems equips me with a holistic perspective on technology. The HINF background creates a basis of technical, medical, and administrative healthcare knowledge. Leadership qualities cultivated as a Taekwondo instructor further uniquely position me for internships in computer science or health information science.

EDUCATION

UNIVERSITY OF VICTORIA, Victoria, Canada **May 2025**
Bachelor of Science (BSc), Computer Science and Health Information Science

- Current GPA is 3.85.
- $3,000 Entry scholarship.

COURSERA, Vancouver, Canada **June 2024**
Meta Back-end Developer Professional Certificate

PROFESSIONAL EXPERIENCE

ISLAND HEALTH AUTHORITY, Victoria, Canada **May 2024 - Current**
Clinical Application Analyst Co-op

- Responsible for helping maintain clinical applications and troubleshooting Issues.
- Understanding of clinical procedures and application infrastructure

TANTALUS SYSTEM CORPS, Burnaby, Canada **August 2023 – April 2024**
Co-op Hardware Test Engineer

- Maintained and developed Python and Bash scripts for testing and utility purposes.
- Executed and created various hardware tests and procedures then monitored performance.
- Tested performance of various RF (Radio Frequency) communication modules.
- Performed fault diagnosis and component updating of PCBs (Printed Circuit Board).
- Data management and analysis using Excel.

(MCBRIDE) OMAC MASTERS TAEKWONDO, New Westminster, Canada **May 2022 - August 2022, June 2021 - August 2021**
Taekwondo instructor

- Instructed various age groups, designed tailored lesson plans, and managed other instructors.

SKILLS

COMPUTER & TECHNICAL

- Programming Languages: Python (+ Django), Java, SQL, C, Bash, Assembly, HTML, and CSS
- Computer Tools: Git, BASH, Microsoft Office, Slack, Minicom/Teraterm, Ubuntu, Jira, Confluence, Insomnia
- Foundational understanding of electronics and usage of electrical tools like Oscilloscopes, Soldering tools, etc
- Software Development
- Foundational understanding of networks and communications
- Back-end development and some understanding of Front-end
- API development

Health Information Science

- Knowledge of EHR's (Electronic Health Records), EMR's (Electronic Medical Records), and other related healthcare systems
- Foundational medical knowledge
- Procurement process knowledge
- Database development, management, and usage
- Data management and analysis

GENERAL

- Demonstrated Leadership in Small Groups
- Good teamwork skills
- Strong Communication Skills
- Problem solving
- Quick Learner
- Open-minded
- Ability to multitask.
- Strong work ethic

PROJECTS

OPERATING SYSTEM PROJECTS, Victoria, Canada **May 2023 - August 2023**

School project

1. **Linux command piping (C):** Designed a program that can take up to four shell commands. Then execute commands sequentially transferring output of one command as input of the next. This program emulates piping present in Unix-systems.
2. **Thread synchronization (C):** Developed a concurrent program using POSIX threads to simulate the formation of an ethynyl radical (two carbons and one hydrogen atom). Synchronization challenges were addressed to ensure proper combination of threads into atoms. I implemented both a mutex and a semaphore solution.
3. **CPU process scheduling (C**): Created a program simulating a multi-level feedback queue scheduler. Three queues were present with decreasing priorities and increasing time quantum from most priority to least being 2, 4 and 8 seconds respectively. The scheduler also included a mechanism to prevent indefinite wait time in lower priority queues.
4. **Linux file system operations (C):**
    - **Stat:** Extracted and printed information about the fie systems superblock and FAT entries.
    - **Ls:** Imitated the "ls" command in Unix but also showed file size and creation date.
    - **Cat:** Imitated the "cat" command in Unix displaying file contents to the console.

ASSEMBLY PROGRAMMING, Victoria, Canada **January 2023 - April 2023**

School project

All coding was done on ATMega2560 Arduino board provided by the school for a class.

- **Project 1**: Developed functions in assembly language to control LEDs on the Arduino board. When completed, one could push strings onto the stack and illuminate corresponding LEDs for each letter in the word.
- **Project 2**: Implemented assembly language program for the LCD display and buttons on the Arduino board. Upon completion, the bottom right indicated if a button was pressed or not while bottom left displayed the last pressed button. The up and down buttons allowed navigation through a string while left and right buttons shifted the LCD cursor on the top row, enabling string reiteration at any column.

SMALL-SCALE ORACLE DATABASE APPLICATION, Victoria, Canada **January 2023 - April 2023**

School project

- Developed a small-scale application with a group.
- Built functionality including tables, triggers, authorization, and authentication schemes with SQL.
- Inserted logos, banners, and created page items for various display purposes.

SENTENCE CONCORDANCE, Victoria, Canada **September 2022 - December 2022**

School project

Given a text file containing sentences and exclusion words it would generate an array of sentences, each with one capitalized word. If exclusion words were found in sentences, no version with that word capitalized was created. Sentences were aligned by capitalized words at the 30^{th} column with character limits determining the number of words printed around the capitalized word.

- **Version 1 C implementation (Static):** Focused on static programming techniques within the C language.
- **Version 2 Python Implementation (Basic):** Similar to the first version but coded in Python.
- **Version 3 C implementation (Dynamic):** Implemented a more memory efficient version of the project through dynamic program techniques in the C language. Specifically, I used object-oriented programming to design a dynamic 2D-array structure.
- **Version 4 Python implementation (Classes):** Enhanced the Python concordance program by using object-oriented programming techniques with classes for code reusability and modular design.

REFERENCES (CONTACT INFORMATION AVAILABLE UPON REQUEST)

Rob De Angelis

Hardware Product Development Director at Tantalus Systems

Mark Fairburn
Senior RF design Engineer at Tantalus Systems