

SAMAN PORDANESH

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Technical knowledge

- C#, C/C++, Java, JavaScript, Python, PHP, SQL, Shell Scripting
- Data Structure and Algorithm, OOP, Cybersecurity, Security+
- Git, CMake, Azura, SharePoint, Jira
- AI/LM, LLM, Reverse Engineering, Ghidra, SengMaker, Data breaks
- Kali Linux, Laravel, Burp Suite, Wireshark, Nmap

Education

SOFTWARE ENGINEERING, UNIVERSITY OF CALGARY

Sep 2020 – present

- The current total **GPA of 3.74**. Academic challenges through **Software Development, Databases, AI/ML, Cybersecurity, and Web Applications** totally through group-based projects.

Experiences

Artificial Intelligence Human Code Reviewer Capstone Project, NETWORK INNOVATION

Sep 2023 – Present

- Leverage off-the-shelf **AI/ML** technology, to analyze and review code for well-formedness and efficiency.
- Research on current technologies, appropriate data sets gathering, available models and fine-tuning approaches.

LLM Application in Security, SCHULICH SCHOOL OF ENGINEERING

Aug 2023 – Present

- A **research** position investigating LLM capabilities to aid **malware analysis** and **reverse engineering**, while exploring **AI/ML** for better-automated **malware detection** and **code analysis**.
- By analyzing academic literature surveys, and different LLMs and utilizing fine-tuning and data analysis techniques, we are optimizing the potential of AI/ML technology through the implementation of solutions.

[QA] TESTING & SECURITY TEAM (ADATRA TRADING APP), INTELIOUS AI

Jun 2022 – Aug 2022

- Conducted comprehensive functionality and **security testing** for the "Adatra" enterprise trading application on mobile and web platforms, including functional tests using **Microsoft Azure**.
- Assessed **APIs, Data Pipelines, and User Interfaces** for issues and promptly reported bugs for resolution via **CI/CD**.
- Provided **security consultancy** and researched secure solutions, emphasizing **Database Security, Data Loss Prevention, encryption, and access control**.
- Utilized security testing tools like **Burp-Suite, Nmap, Wireshark, and OAuth**.

EDUCATIONAL MATERIAL DESIGNING (RA), UNIVERSITY OF CALGARY ([Repository](#))

May 2022 - Jun 2022

- Translating **Python OOP Principles** projects, as a [video series](#) tutorial, to **Java**:
 - **Restructuring** Python projects to **Java**, **UML diagrams**, **abstraction**, **interfaces**, **association**, **aggregation**
 - Python's **GUI** conversion to Java version using the **Swing** library.
- Design **blog posts** for all changes that we made on the Python projects by detail.

Projects

PRACTICAL DEEP LEARNING, FAST.AI

Sep 2023 - present

- Develop **deep learning** models for various tasks, including **computer vision**, **natural language processing**, **tabular analysis**, and **collaborative filtering**.
- Utilize **PyTorch**, **fast.ai**, **Hugging Face**, and other popular libraries for model development.
- Build random forests and **regression models**, as well as deploy **trained models**.

ONLINE CINEMA TICKETING WEB APPLICATION, UNIVERSITY OF CALGARY ([Repository](#))

Sep 2023 - Dec 2023

- A web application where users purchase tickets for movies playing at a cinema in **PHP, MySQL**, and **MVC** architecture.
- **Ease of movie selection**, **multi-level users**, **graphical seat selection**, and **strong database structure** to reach the heist performance.

FOOD BANK MANAGER APPLICATION, UNIVERSITY OF CALGARY ([Repository](#))

Jan 2022 - Apr 2022

- Complete design and implementation of a food bank managing application in **Java, MySQL, Junit testing**, and **GUI** library.
- **Strong inventory management**, **Smart individual-oriented hamper generator**, **Solving people traffic**.

PYTHON PROGRAMMING DEGREE, NAVID PARS (PRIVATE COLLEGE) ([Repository](#))

Sep 2019 - Jan 2020

- A **60-hour** Python, OOP, Kivy Framework, and Pygame Library course. **Project: Real-time Car Race game**; **Final score: 100/100**.
- **Django** framework fundamentals through designing simple e-commerce: **Add Items by admin**, **Cart Management**, **User Page**, **Payment**