

# FRANCIS SSEMWANGA



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<https://github.com/f-ssemwanga>

## Profile

As a Lead Teacher of Computer Science and Director of IT at SMCS School, I am currently pursuing a master's degree in computer science with a focus on Artificial Intelligence, further enhancing my expertise in software design, machine learning, and computer vision. With a Bachelor of Science in Education with Maths and a Diploma in Electrical and Electronic Engineering, I bring a diverse skill set to any organisation seeking a talented and dedicated Computer Science professional.

## Core Skills:

- Programming languages: Python, Java, HTML, CSS, JavaScript
- Tools and technologies: Git, VSCode, Jupyter notebooks, Google colab, SQLite, SQL
- Python modules: pandas, numpy, matplotlib, pygame, PyQt5, TensorFlow
- Office 365 Administration, Teams, Power APPs, OneNote, OneDrive and Sharepoint
- Able to identify and analyse complex problems and develop effective solutions.
- Skilled in breaking down complex problems into smaller components and analysing each component to find potential solutions.
- Able to prioritise tasks, meet deadlines, and efficiently use time to balance academic studies, work, and a boot camp.
- Keen eye for catching small errors or bugs and ensuring code accuracy and efficiency.
- Willingness to learn and adapt to new tools, technologies, and languages.
- Skilled in graphics editing and video editing, indicating a strong creative skill set that can be applied to other areas of work.

## Other Skills

- Able to deliver engaging and informative presentations to a variety of audiences.
- Skilled in providing effective training to colleagues and students.
- Ability to lead teams and projects towards success.
- Experienced in collaborating with team members to achieve shared goals.

## Projects

- Designed student and Power App planner App for student organisation and parental messaging.
- Lead whole school migration from traditional to online teaching via MS Teams
- Lead staff IT training sessions
- Lead the implementation of the schools BYOD system across the school.

## **Work Experience**

### **Director of IT at St Mary's Catholic School**

Sep 2003 - Present

- Design, maintain and update the student – Parent App (designed through Microsoft Power Apps and Running on SharePoint data sources) with 100% uptake.
- Train staff in using blended learning tools.
- Managed and lead the schools' BYOD programme.

### **Lead Teacher of Computer Science at St Mary's Catholic School**

Sep 2003 - Present

- I have been able to deliver successful exam results for the past 8 years, with 100% of students taking A Level Computer science going to study computer science-related degrees at UK universities.

### **Senior assessor at Oxford Cambridge and RSA Examinations**

May 2022 - Present

- Moderating programming project coursework pieces, writing evaluative reports to exam centres, collaborating with team members to achieve target results.
- Due to my ability to exceed my allocated marking quota by over 150%, in the previous exam window, promoted to role of senior moderator.

### **Desktop Support Engineer at Millennium Computers**

### **Telecommunications Trainee Engineer**

## **Education**

- Master's Degree, Computer Science with AI, University of York  
2022 – 2024
- Front End Development – Purple Beard LDT  
July 2023
- TensorFlow Developer Certificate – Zero to Mastery  
Sept 2023
- Qualified Teaching Status, University of Hertfordshire  
2003 - 2004
- Diploma, Electrical and Electronics Engineering, Uganda Polytechnic
- Bachelor of Science – Education with Mathematics, Makerere University