

# SACHA PASSEBECQ-GHANTY

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Geneva

French, 18 years old, 05/07/2005

## SUMMARY

I've held a strong fascination for technology, being captivated by its profound impact on the world and its continuous evolution. The rapid evolution of technology has undeniably reshaped and will continue to reshape our world for as long as society continues. This potential of IT has ignited my ambition to forge a career dedicated to capitalizing and harnessing its power in order to make the world a slightly better place.

## EXPERIENCE

### Cashier

#### NG Next

06/2018 - 08/2018 GBLC, Mauritius

Retail stores

- Handling customer requests
- Handling inventory management
- Handling customer transactions

### Intern in IT and Private Banking department

#### Bank One

08/2023 - 09/2023 Port-Louis, Mauritius

Banking

- Helping maintain critical systems to ensure safe and uninterrupted operations
- Learned about "in-house" software development and mobile banking apps
- Helped perform 'KYC' procedures on potential private clients

## EDUCATION

### Computer Science Major

#### Webster University Geneva

08/2023 - Present Geneva, Switzerland

### International Baccalaureate(IB)

#### Institut Le Rosey

2021 - 2023 Rolle, Switzerland

- Computer Science HL
- Economics HL
- English Language and Literature HL
- Physics SL
- Mathematics Analysis and Approaches SL
- French Literature SL

GPA

36 / 45

### International General Certificate of Secondary Education (IGCSE Cambridge(CIE))

#### Northfields International School - Mauritius

2019 - 2021 Mapoux, Mauritius

- Computer Science
- Mathematics Extended
- Additional Mathematics
- Physics Extended
- Biology Extended
- English Extended
- French Extended

## SKILLS

Programming Languages : Java (SE 18)

Python

ReactJS

HTML

CSS

Javascript

Typescript

MySQL

VBA

Software : Excel

PowerBI

Unreal Engine

Blender

MySQL Workbench

Word

Powerpoint

## LANGUAGES

**French(C2)**

Native

**English(C1)**

Proficient

**Mauritian Creole**

Advanced

## PROJECTS

### Employee Management System - Java (SE 18)

For the final two years of high school I developed an Employee Management System from scratch in **Java** for a **client** based in Mauritius looking for a more efficient way to maintain their retail shops. View documentation and source code here : [employee-management.passebecq.ch/](https://employee-management.passebecq.ch/)

Password : [pacifictROUT](#)

The program includes :

- **Shift Scheduler** based on parameters set by the user, which allowed the creation of shifts 250 times faster (previously used Excel)
- **Database(MySQL)** manipulation through a GUI(adding, deleting, modifying employees), with error checking
- Viewing and sorting employees based on **user parameters** such as salary, role, or shop

## RESEARCH

### Investigating the causation of bitflips

#### Research Paper

- During the two final years of high school, I started research on bit flips, and ultimately concluded with a research paper titled "[Investigating the causation of bit flips](#)". The paper combines both **computer science and physics**, in order to best explain this phenomenon.
- Abstract can be found at : [abstract-sees.passebecq.ch](https://abstract-sees.passebecq.ch)
- Full paper can be found at [research-paper-bitflips.passebecq.ch](https://research-paper-bitflips.passebecq.ch)

## STRENGTHS

**Problem Solving**

**Creative thinking**

**Leadership**

**Highly motivated and proactive**

**Organized, and priority management**

**In-depth research, and providing recommendations**

**Critical thinking**

## VOLUNTEERING

### Assistant Caregiver

#### Carina Retirement Home

📅 09/2021 - 12/2021 📍 Rolle, Switzerland

I've developed strong communication skills, adaptability, and empathy. I understand the importance of following protocols and providing compassionate care in challenging situations.

### Leader

#### Terre des Hommes

📅 09/2021 - 12/2021 📍 Rolle, Switzerland

My volunteer work fundraising for "Terre des Hommes", advocating for children's rights, has refined my communication skills and passion for making a positive impact, as well as strengthening my leaderships skills, as I was handling a group of 16 volunteers.

## CERTIFICATION

**ORB Duke of Edinburgh - Bronze Award**

**IELTS - 7.0 Band**