

# CURRICULUM VITAE JONATHAN PAWEŁ PIECZARA

GitHub: jpieczar

jpieczar.github.io

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## Work experience

### Software engineer

#### BCX

Mar 2021 – present

- I maintain an API for the retrieval of data in C# for better functionality and ease of use for the clients.
- ETL pipelines in Azure Data Factory for the collection of data to be stored.
- Scripting of daily tasks, for both myself and colleagues, to ensure consistent results when provisioning of IoT devices (Python and Batch).
- Querying databases using SQL (MySQL, PostgreSQL) for data and validating the correct storage of said data.
- Writing programmes to ensure the validity of data and benchmarking of the API and its speed.
- Building IoT panels by wiring them and installing them on site for the inter-communication of IoT devices.

### Cyber security intern

#### F-Secure Corporation

Feb 2020 – May 2020

- Learning and then performing web application penetration testing on multiple types of web applications.
- Scripting to automate tasks such as brute forcing and setting up reverse shells for remote code execution.
- Reverse engineering of a C# application and listening to its communications traffic to bypass its login functionality.
- Building a (purposefully) vulnerable web application for in-house training
- Extensive use of Linux and Unix like operating systems

### Brand ambassador

#### Provantage Media Group

Dec 2015 – Apr 2018

- Standing in store and pushing product sales for a specified brand.
- Engaging with customers and achieving a sale.
- Advising on what products to buy for different use cases.

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## Education

2023 (Present):	Unisa	Mathematics and Statistics
2019 - 2021:	WeThinkCode_	Computer Software Engineering
2017 - 2018	University of Johannesburg	Analytical chemistry
2010 - 2014:	Jeppe High School for Boys	Matric

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## Personal projects

CodeWars:	Rank 6th Kyu, Honour 230 (programming problem solving website).
Camagru:	This is a social media site (PHP) that allows users to post photos and interact with one-another by liking and commenting on posts.
Push_swap:	Insertion sort written in C with a custom C library.
Fix-me:	A Java organ trading project using the “Fix” protocol that uses sockets to communicate a router, market and broker together.
Matcha:	A Dating site written in Python (Flask).

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## Skills

Languages	C/C++, PHP, Python (including Matplotlib, Pandas and Numpy), SQL, HTML/CSS, Java, Excel, Javascript/NodeJS, Pascal, C#
Skills	Linux, Electronics, API development, ETL pipelines, Web development, Cyber security, Penetration testing
Spoken Languages	English, Polish, Esperanto