

RETEX

Project - PONG

Specifications

- Producing the game « Pong »
- Adding obstacles
- Four player mode
- Menu

Deliverables

- Functional code
- PDF Report

Methods

Language : Processing
Cutting into functions,
classes
Flexible use

Acquired skills

- Processing's shapes
- Object concept
- Class concept
- Collisions between objects
- Interface creation

Project picture



RETEX

Project – Database creation course

Specifications

- Creating a database in a working context
- Respecting the requests of the client

Deliverables

- Codes :
 - DB Creation ■
 - Filling the DB ■
 - Requests for application ■
 - Models ■
 - Visual ■
 - Review ■

Methods

Language : SQL
Model maker : Figma
Requests :
Microsoft SQL
Visual : Google docs

Acquired skills

- Design of an application model
- Implementation of requests for the application
- Following the client's requests

Project picture



RETEX

Project – Web page creation

Specifications

- Create a web page for our company
- A persona
- 5 pages
- Contact page
- Visual
- Responsive

Deliverables

- Responsive pages
- Persona
- Visual for the home page
- GIT repository

Methods

Languages : HTML,
CSS
Web visual : Figma

Acquired skills

- New skills in HTML and CSS
- Persona concept
- Application of responsive properties

Project picture



RETEX

Project – Installation of workstations

Specifications

- Creating a virtual machine environment for a company
- Following the client's demands
- 2 users

Deliverables

- OS : Linux ■
- Following demands ■
- NIGHTLY RUST preinstalled ■
- Bash prompt with git status ■

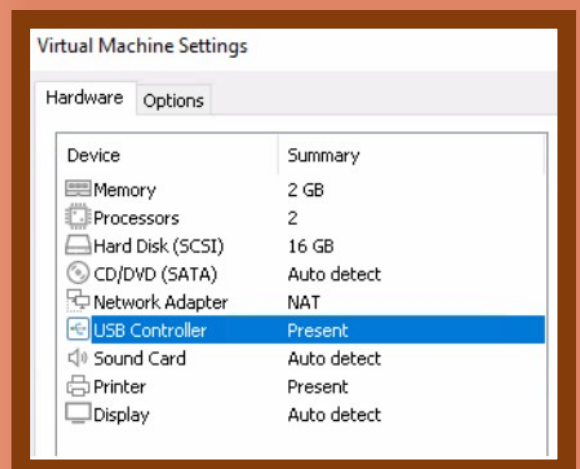
Methods

Tool : CMD,
Key config, VMWARE
Presentation :
Powerpoint
RUST program

Acquired skills

- Bashrc modification to modify the prompt
- Setting up a work environment
- Quick view of Rust

Project picture






RETEX

Project – LOWATEM

Specifications

- Create the rules of a game
- Create an AI able that can play the game intelligently

Deliverables

- Rules code 
- Creation of 2 AIs 
- Summary 

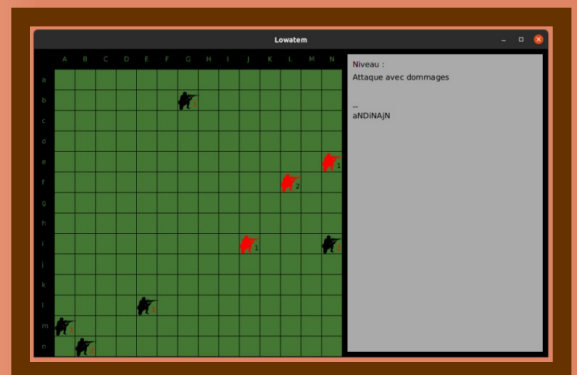
Methods

Language : JAVA
½ IA : Implementation
MINMAX

Acquired skills

- A new perception of JAVA
- Discovery of algorithms linked to AIs > Attempt minmax
- Rules creation

Project picture



RETEX

Project – Setting up a company

Specifications

- Create a fictitious company and develop it
- Imagine products, aids, campaigns of communication...

Deliverables

- Full summary ■
- Evolution graphs ■
- Marketing analysis ■

Methods

PESTEL analysis
SWOT analysis

Acquired skills

- Understanding the prerequisites for a functional enterprise
- Conducting a marketing analysis

Project picture

<u>FORCES / STRENGTH</u>	<u>FAIBLESSES / WEAKNESSES</u>
Omniprésence en France Offres spécifiques/spécialisées Accompagnement personnalisé selon besoins Immeubles neufs Touche un public favorable Relance en période pandémique	Pas beaucoup d'argent Nombre de salariés faible Possibilité de recrutement faible Grande concurrence Faible visibilité
<u>OPPORTUNITES / OPPORTUNITIES</u>	<u>MENACES / THREATS</u>
Accroissement de la visibilité avec de la pub sur tout support Partenariat avec des entreprises pour du matériel informatique Possibilité de forfait selon les besoins de l'entreprise	Grande concurrence trop agressive Inflation de l'immobilier → impossibilité de détenir les locaux au début Manque de clients

RETEX

Project - EbayBNB

Specifications

- Create an application based on the concept of Ebay and AirBNB
- Management of buyers, sellers, properties, admins.

Deliverables

- Full report ■
- Administration panel ■
- Possibility to put goods up for sale ■

Methods

Java,
Navigation menu

Acquired skills

- Manage multiple inputs and link to internal functions
- Error handling
- Understanding of the user interface

Project picture

```
Connectez-vous :
George
Connexion...
Choisissez une option.
1- Modifier les informations d'un autre utilisateur
2- Se déconnecter
3- Créer un compte - Permission administrateur
4- Accéder aux propriétés
5- Voir l'ensemble des enchères sur une offre de location
6- Mettre fin à une enchère
7- Quitter l'application
```




RETEX

Project - Labyrinth

Specifications

- Create a video game where the game is to escape a maze
- Have monsters
- Be able to move

Deliverables

- Full summary 
- Code 
- Smooth animations 

Methods

Java,
JavaFX

Acquired skills

- Understanding the concept of moving
- Understanding of smooth animations

Project picture



RETEX

Project - Graphs

Specifications

- Have a Java application that allows the creation of nodes
- To be able to search for the shortest path

Deliverables

- Full summary
- Application
- Different research algorithms

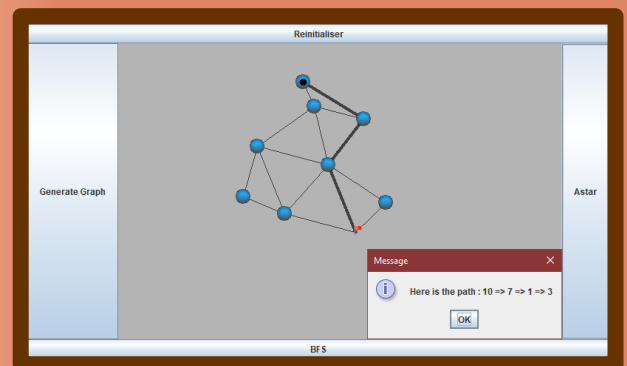
Methods

Java,
Jframe, Jbutton,
listeners

Acquired skills

- Search for a shortest path (BFS, Astar, ...)
- Understanding of binary search trees

Project picture



RETEX

Project – Application for a client

Specifications

- Delivery of an application with an interview with the « customer »
- Respect the evolution of demands

Deliverables

- Rapport complet ■
- Application ■
- Presentation of the application at different Intervals of the project ■

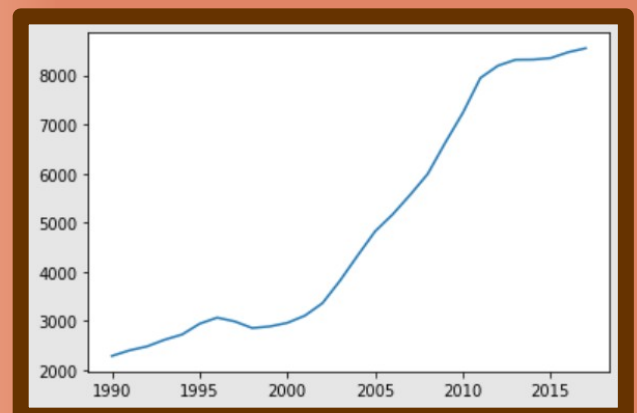
Methods

Python, IPYNB,
Sqlite3, matplotlib,
Pandas

Skills acquired

- Analysis of the client's need
- Teamwork on a common project

Project picture



RETEX

Project – Snake

Specifications

- Preparation of a programmable snake for novices for the Open Days

Deliverables

- Full summary ■
- Application ■
- Topic of work ■

Methods

Processing

Acquired skills

- Explaining a project to a novice
- Setting up a fun project to start with
- Communication

Project picture








RETEX

Personal project – OVERSEA

Specifications

- Retrieve data from a server as JSON and find specific data
- Enable the use of data for other works

Deliverables

- Data retrieval 
- Visual name creation 
- Async code 
- Storage of data 
- Bot to use the data 

Methods

Language : PYTHON
Requests : REQUESTS
module, Processing :
PANDAS.
Addition : ASYNC

Acquired skills

- Reinforcement of PYTHON bases, discovery of PANDAS, bots, ...
- Discovery of asynchronous programs

Project picture



RETEX

Professional job – Summer job

Work required

- Ensure the good presentation of the shelf (filling, aesthetics, sanitation, ...)
- Customer service

Periods worked

28/06/22 – 02/07/22
then re-employed for
12/07/22 – 06/08/22

Informations

Work : Fish seller
Store : E.Leclerc
Workplace : Sarlat-
La-Canéda (24)

Acquired skills

- Improved relationship with the client, better speed of work
- First serious experience of working as a team

Details

Team of 6-7 people
A wide range of
timetables :
6:30 AM – 9:00 PM