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Vincent HU

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Resourceful software developer with a demonstrated commitment to manage multiple and diversified projects.

EDUCATION

Le Kremlin-Bicetre, Paris	EPITA	September 2016 - July 2021

- Master degree in computer science, majoring in big data and data science
- Non degree university exchange at *Beijing Institute of Technology* from **Frebuary 2018** to **July 2018**

EMPLOYMENT

Software engineer	Arista Networks	March 2021 - September 2023

- DMA driver project maintainer, leading weekly meeting going through tickets and fixing bugs related to the package. Made presentations to the team about interesting bugs that were found and fixed. **Python** and **C**.
- Tweak L3 BFD protocol to adhere to new L2 MacSec feature using **TACC/C++**. Experience with full software development life cycle, including coding standards, code reviews, source control management (**Perforce**), build processes and testing.
- Mentoring new software developer. Giving guidance with initial training, internal tools and processes.
- Quarterly escalation duty. Received a peer bonus from pushing multiple escalations that were left without response.

Teaching Assistant	EPITA	Sep 18-Jul 19/Jan 20-Jan 21

- ASM: Weekly programming practical work of **C** for 2nd grade students about pointers, memory allocation, debug (GDB), linked list, hash table, threads
- YAKA/ACU: Treasurer of the association, in charge of the bank account of the association, order of 500+ t-shirts/uniforms. Computer science teaching Assistant in **C**, **C++**, **Java** and **SQL** for 600 3rd grade students

DevOps R&D, Intern	Natixis	September 2019 - January 2020

- Implementation of deployment and testing pipeline, written in **Python**.
- Leverage knowledge in SCRUM methdology, TFS VC, XLDeploy, Postman, XML and JSON files.

PROJECTS

Click & collect platform: Created a Click&Collect platform using TastyIgniter, AWS Lightsail, LAMP, Postmark, Stripe.
Botter, Hawkeye, Hulk: Developed multiple Python scripts betting scrapping and storing data from sport bet websites using Selenium, Request, SMTP, MongoDB and JSON files.
Text mining: Creation of a spell checker / search engine implemented with a Patricia Trie (radix tree) and Damerau-Levenshtein distance using C++, Cmake, unittest.
POC on NYC tickets (Dataset from Kaggle): Implementation of a data pipeline, collecting and storing to analyzing data using Spark, HDFS, SparkStreaming in Scala
Chess: Produced a chess engine following UCI protocol and a chess AI based on MinMax algorithm, alpha beta pruning and quiescence search using C++, Cmake and Gtest. Ranked third of the class (60 groups).
Personal Bash: Implementation of a bash, established the parser, the pipe and command execution features in C
Kmeans optimization: Improved kmeans algorithm performance from 4sec to 0.7sec per lap by integrating AVX and openMP libraries

ASSETS

IMC Prosperity 2024: solo top 1% (130 / 9000) in 2nd edition of IMC trading competition. Python, Market making/taking, Arbritrage, Black-Scholes model, Pair trading.
AWS Cloud Quest: Cloud Practitioner badge.
Google Code Jam: top 5-10% (2200-4600/45000) on first round of Google Code Jam 2020.
French final year high school exam: Scored maximum grade (20 out of 20) in mathematics.

SKILLS

Hard skills: Python, C++, SQL, Git, vim, VScode, LaTex, MacOS, Linux, Bash
Soft skills: Hard work, Ability to work under pressure, Curious, Team player