Thomas DAMBRIN

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EXPERIENCE

Societe Generale Corporate and Investment Banking – Risk Division, Quantitative Developer

September 2023 - Present

Financial services/Banking Company, New York City (USA)

- Monitor the Bank risk exposure by automating the computation of risk metrics on Fixed Income and Equity derivatives e.g stress tests, VaR, SVaR
- Develop, maintain, monitor and release Python libraries for internal system APIs and databases. Used by teams worldwide for reporting or analysis Tech stack: *Python, Git, MySQL, REST APIs*

Mazars – Data Advisory Team, Data Engineer & Scientist Consultant

June 2022 - August 2023

- Audit & consulting group, Paris (France)
- · Architect and implement data lakes and warehouses, optimize queries speeding up to 80% for a real estate industry leader with GB sized datasets
- Develop, deploy and maintain a web application for an energy industry leader uniformizing HR data from 100+ countries and 20+ ERPs solutions
- Leverage and fine tune NLP models to create meaningful audit processes pipelines, develop a web application for interaction and data annotation Tech stack: AWS, Azure, Bash, Celery, CI/CD, ElasticSearch, Git, MongoDB, Python (Pandas/Scikit/Spacy/etc), Snowflake, SQL, Talend, VueJS

ETIC INSA Technologies - Software Engineer

September 2021 – December 2022

INSA Lyon junior enterprise, won best French junior enterprise in 2019, Villeurbanne (France)

- Build, deploy and maintain the vehicle maintenance system of a transportation industry actor leading to a 3 consecutive projects with the JE
- Frame app development and manage students by providing technical lead on two €20K+ projects with 4 months end-to-end delivery processes Tech stack: AngularJS, AWS (Beanstalk, RDS, S3), Javascript, PostgreSQL, Flask

Worldline - Digital Banking Center, Backend Engineer Trainee

May - August 2021

FinTech company, Villeurbanne (France)

- Develop back-end components and authentication/authorization services (SSO, OAuth2) for a customer-facing banking mobile application
- Interconnect 5 transactional systems into a single REST API allowing platform-independent transaction management and information retrieval Tech stack: CI/CD, Keycloak, Kotlin, OAuth2, Spring

INSA Lyon - Computer Science Tutor

January - May 2021

- Prepare and host weekly trainings to 1st and 2nd year students | Algorithmic methodology, Design methodology, Java basics, OOP fundamentals
- · Write documents on Algorithmic methodology for beginners, support sheets for Java development and trainings on expected exam problems
- Improve GPA from 30% to 80% over a semester and result in 2 students choosing CS specialization by breaking down the thinking processes

EDUCATION

INSA Lyon – Master in Telecommunication Engineering – Ranked Top 10%

September 2019 - May 2022

AI (Game theory, ML, RL, DL), Blockchain, Database Management, Network Architecture and Protocols, Programming, Signal Processing

The Hong Kong University of Science & Technology – Academic Exchange Program

Blockchain and Fintech, Data Mining, Deep Learning Architectures, Finance, Machine Learning

January – May 2022

Polytech Annecy-Chambéry - Bachelor of Engineering - Valedictorian

Automation, Computer Science & Electronics, Engineering Fundamentals (Chemical Engineering, Physics, Maths)

September 2017 - May 2019

ACADEMIC PROJECTS

Game Theory Research Project \(\bigcirc\)/SDMStudio/sdms

2021

Explore mathematical properties and implement heuristic search driven planning algorithms for multi agent zero-sum NF and Bayesian games

Cryptocurrencies And Exchange Platform Analysis

2021

Fetch, preprocess, store on a distributed cluster and back up open cryptocurrency rates and exchanges data for visualization & high-level analysis

Deep Learning Approach For Traffic Engineering

2021

Fetch, preprocess, augment graph data and to try and solve Interior Gateway Protocol (IGP) weight optimization problem with neural networks

Image Segmentation Research Initiation Project

2020

Write an SoA of graph-based approaches and reimplement random walks (Python) with User interface to visualize parameters tuning results

ADDITIONAL INFORMATION

Open-Source Contribution: Developed and released a Python based CLI for Snowflake worksheet versioning (cf GitHub)

Cloud Components: AWS, Docker, Microsoft Azure, Snowflake, Heroku

Frameworks: AngularJS, ELK Stack, Express, Spring, VueJS

Programming Languages: Bash, C, C++, Go, Haskell, HTML, Java, Javascript, Kotlin, Makefile, SQL, Typescript, Python

Languages: English (Fluent), French (Native)

Hobbies: Acrylic Painting, Boxing, Basketball, Chess, City Pop Art, Fashion, Jumping Rope, Modeling, R&B, Philosophy (Ethics, Nietzsche)

HACKATONS

Agorize & Safran: Blackout Challenge - National Open Innovation Challenge, 3rd prize among 150+ teams

2021

• Design a visual light communication (VLC) based indoor guidance system to help blind people and pitch the solution to Safran's top management

Accenture: Hackathome – National Coding Battle, 3rd prize among 80+ teams

2021 hm

Optimize a cloud services distribution (multi-metrics combinatorial optimization) over multiple servers through a randomized greedy algorithm