

Xavier Servot
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| LEGAL STATUS | French passport, living in Switzerland on a B permit. I am 19 years old. |
| PURPOSE | Looking for an internship in a technology company (Summer 2020). |
| LANGUAGES | English (fluent), French (native). |
| EDUCATION | Swiss Federal Institute of Technology, Lausanne (École Polytechnique Fédérale de Lausanne) BS. Computer Science Expected July, 2021 GPA: 3.18/4.00 |
| TECHNICAL SKILLS | Languages : Swift, C, C++, Java, Javascript, \LaTeX and others. Database : MySQL, Realm (iOS), GCP Firestore, GCP Realtime Database. Servers : Google Cloud Platform, Elasticsearch. General : Algorithms, OOP. |
| ACADEMIC ACCOMPLISHMENTS | <ul style="list-style-type: none">- 3rd prize, French National Mathematical Olympiads, 2016- 1st of the South-east Asia zone, French National Mathematical Olympiads, 2016 |
| PROJECTS | Improving Monte-Carlo Tree Search (MCTS) May 2019 Used MCTS to determine which card should be played in the Swiss game of Jass. I improved upon the default heuristics of MCTS and made a report in the process. <ul style="list-style-type: none">• Technical document : xavierservot.com/mcts.pdf Vegan Pro - an iOS app 2016-2018 An iOS app to help vegans, with recipes, restaurants around you, advice on nutrition and more. Worked on a backend infrastructure to enable the restaurants around you feature (GCP, Elasticsearch and previously GeoFire. The rest of the content that requires connectivity is typically hosted on Firebase Storage and Firebase Realtime Database.). Worked with influencers to integrate their content in the app. <ul style="list-style-type: none">• Technology/Tools: Swift, Realm Database, Elasticsearch, Google Cloud Platform, Google Cloud functions, Google Cloud Realtime Database/Firestore, Google Compute Engine.• Link : itunes.apple.com/us/app/vegan-pro-app/id1165473484?ls=1&mt=8 Analysis of the market data of Crypto-exchanges Summer 2018-2019 Worked with a friend to develop tools to analyse the market data of the cryptocurrency exchange websites Coinbase Pro, Binance and many more. The goal was to identify opportunities of arbitrage. We built them using GCP. We used MySQL for storing market data, that we fetched from the public apis of these exchanges using a cron job and a GCP Compute Engine instance. (fetching scripts written in javascript). We analysed the data using python. <ul style="list-style-type: none">• Technology/Tools: Javascript, Python, SQL, Google Cloud Platform (Compute Engine, MySQL instance), Websocket APIs. |
| RELEVANT INFORMATION | I post documents about what I do and learn on my website xavierservot.com . They stand there as a proof of my dedication. |