Émilien BAI

Software engineer – Fullstack developer

25 years old, French nationality

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Looking for a full time job in software engineering in the area of Lyon, France, starting September 2019

Professional experience

09/2017 → now   **Full stack development**
3dTrust – Munich, Germany
- Design and development of new features (ie. scheduling algorithm to automate production planning, orders and request for quotations system, …) back-end and front-end.
- Design and integration of a side application based on a blockchain architecture (Hyperledger Fabric) to ensure traceability of production and machine maintenance

Python (Django), Typescript (Angular2+), HTML, CSS, Go

2017 – 6 months   **Research and development intern**
Luleå University of technology – Luleå, Sweden
- Design and implementation of a reward system for collaborative care of elderly, aimed at motivating potential volunteers to bring help to elderly people.
- Development of a back-end based on smart-contracts using distributed ledger technologies (Monax, fork of Ethereum) and a mobile application as a blockchain "wallet".
- Publication of a research paper in the conference proceedings of UBICOMM 2017 (Barcelona, November 2017) and an extended version of this paper in the International Journal on Advances in Life Sciences.

Solidity, NodeJS, Typescript (Angular2+)

2016 – 4 months   **Software engineer intern**
Foxstream – Vaulx en Velin, France
- Update of Foxtool, software used for CCTV camera placement simulation.
- Creation of cameras point of view 3D simulation using C#, OpenTK and GLSL.
- Update of the global architecture of the application by the inclusion of common design patterns.

C# (Winform), OpenTK

2015 – 3 months   **Software engineering intern**
XLR Project – Lyon, France
- Entire development of a Java application from specifications to release.
- Collection of analog signals with an Arduino board then conversion into MIDI and OSC messages to create interaction with most of the creative live software.

Java (Swing), Arduino

Education

2012 – 2017 - INSA Lyon (France)
Master degree in Engineering - Computer science and software engineering.
2016 – 2017 – Luleå University of Technology (Sweden)
Exchange student (1 year) - Computer science program and Swedish courses.
2012 Lycée Champagnat (France)
French "baccalauréat S" with honors.

Skills

Programming: Python, Typescript, Solidity, Go, NodeJS, Java, C#.
Others: Agile methodologies, project management, autonomy.
Languages:
- French: Mother tongue
- English: Advanced
- German: Intermediate
- Swedish: Notions

Publications

2018 - "Supporting Collaborative Care of Elderly through a Reward System based on Distributed Ledger Technologies",
Emilien Bai and Kåre Synnes, The International Journal on Advances in Life Sciences, vol.10, 2018
2017 - "A Reward System for Collaborative Care of Elderly based on Distributed Ledger Technologies",
Emilien Bai and Kåre Synnes, In the proceedings of the Eleventh International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM) 2017

Hobbies

Cycling, Fitness, Photography, TV shows and Cinema