

# Nicolas Frega

SOFTWARE DEVELOPER · ETHEREUM/BLOCKCHAIN · DATA SCIENTIST

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## Skills

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<b>Programming</b>	C/C++, Qt, Python, Node.JS
<b>Web</b>	HTML5, SASS/LESS, JavaScript, Ruby on Rails, React/Redux
<b>Blockchain</b>	Solidity, Truffle, Web3, Geth, Remix
<b>Big Data</b>	Advance Algorithm, RDBMS/DBMS, R

## Experience

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### Srax/Blockchain Identification Graph - BIG

Los Angeles, CA

BLOCKCHAIN DEVELOPER

Jan. 2018 - Present

I am currently responsible for the life-cycle development and implementation of the Blockchain/Ethereum infrastructure of the application. I implemented a developing process derived on the specific requirements of the application, this process included:

- Initial Smart Contracts development in Solidity and testing in Remix.
- Truffle implementation and Mocha testing.
- Truffle deployment to Rinkeby testnet and live testing.
- Web3 and Geth development of back end functions and application interaction through custom API.
- Developing of multi signature wallet solution dapp.
- Creation and maintenance of software documentation related to Ethereum infrastructure.

### DGF New Tech Canada Ltd.

Vancouver, Canada & LA, U.S.A

CHIEF TECHNOLOGY OFFICER

Jan. 2014 - Dec. 2017

DGF New Tech Canada specializes in remediation of industrial waste through the use of nanoparticles. Responsibilities included:

- Designed and implemented scientific and engineering projects for the testing and application of different nanoparticles for remediation of contaminants. Implemented custom scientific validation processes for hydrocarbon remediation based on data science and analysis.
- Performed scientific validation on the efficacy of nanoparticles for the remediation of PCBs and arsenic by developing data models and algorithms based on scientific literature.
- Researched and wrote over a dozen technical documents regarding the scope and applicability of nanotechnology for industrial decontamination. Wrote and managed investment opportunities in the field of nanotechnology based decontamination, including a multimillion dollar proposal for magnetic assisted sedimentation of mature fine tailings through the application of nanoparticles.

### University of California, Los Angeles

Los Angeles, CA

HIGH ENERGY PARTICLE PHYSICS RESEARCHER

Jan. 2012 - Jan. 2014

Worked in the research and development of the Cherenkov Telescope Array Prototype. Responsibilities included:

- Developed custom software (C++/Qt) to analyze and interpret large data sets to aid in the calibration and alignment of the primary and secondary telescope mirror.
- Wrote custom back end algorithms and processes to measure, analyze, and present complex data sets.
- Developed data algorithms to improve calibration efficacy. Implemented solution via back end software design.

## Education

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### University of California, Los Angeles

Los Angeles, CA

BACHELOR OF SCIENCE IN PHYSICS

Sept. 2012

- Emphasis on particle physics and analysis.

### University of Chicago

Chicago, IL

HIGH ENERGY PARTICLE RESEARCHER

Sept. 2011

- Research Experience for Undergraduates in particle physics, developed mathematical models and algorithms.