JULES COMTE

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Education

Columbia University Combined Plan (Dual-Degree Program)	May 2022

Columbia University, BS in Electrical Engineering
Georgetown University, BS in Computer Science
    Relevant Coursework: Data Structures, Algorithms, Network Security, Cryptography, Computer Architecture
    GPA: 3.9

Stanford University, Visiting Student	June - August 2019

    GPA: 4.0

Phillips Academy Andover, High School Diploma	Martin Luther King Jr. Award	June 2016

Experience

Blockchain Technology & Ecosystem Design, Georgetown University — January 2019 - Present
Researcher
    Study cryptography, network security, and blockchain technology with the goal of finding vulnerabilities in the Bitcoin lightning network, a groundbreaking project with the potential to dramatically increase Bitcoin's transaction throughput while significantly lowering transaction fees

Georgetown University Ballroom Team, Georgetown University — August - December 2018
Treasurer
    Lead the decision making of a seven-person board to fund and manage a $17,000 budget
    Tracked our cash flows, and earned the approval of our expenses from Georgetown University
    Restored a precarious relationship with the university due to a previously overdrawn account

Les Glénans, Concarneau, France — January 2017 - July 2018
Licensed Skipper
    Earned a nationally recognized skipper license in offshore sailing
    Responsible for the security of a crew of up to seven adults in all circumstances
    Anticipated and reacted to potentially life-threatening situations
    Assured the high performance of a sailboat in all weather conditions and marine environments
    Succeeded in my final test under the examination of a famously ruthless and exigent instructor

McDonald's, Sénas, France — May - August 2017
Polyvalent Crew Member
    Thrived in a client-facing environment while progressively promoted to higher-ranked positions
    Adapted to an unrelenting management style in a fast-paced and high-pressure setting
    Won the respect of people from drastically different socio-economic backgrounds

Projects

Interpreters — Present
    Two interpreters built in C for a functional and an object-oriented programming language

Bitcoin/Lightning Full Node on a Raspberry Pi — Present
    Validates and relays bitcoin transactions while maintaining a copy of the blockchain

Encrypted Message Broadcasting Command Line Application — September 2019
    Built in python, encrypts, decrypts, authenticates, and broadcasts messages from one client to all others

Power Bank Sharing Startup — June - August 2019
    Led the conception of the strategy, iterating according to customer feedback
    Pitched to both teachers and investors over the course of Stanford's Tech Entrepreneurship course

Portfolio Website — June 2019
    Built a website to host the artwork of my sister

iOS Application — May 2019
    Gives Georgetown students the location of open dining options at any time of the day

Skills

Computer Languages: C, C++, Java, Python, HTML, CSS, JavaScript, Swift
Tools & Frameworks: Vim, Atom, XCode, Android Studio, Unix Command Line, GCC, GDB, Valgrind, Make, JUnit, Bootstrap, jQuery, Node.js, Express, EJS, Heroku, Git, GitHub, Raspberry Pi, Android and iOS app development
Languages: French: Professional Working Proficiency | Spanish: Professional Working Proficiency