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

Research Assistant
    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