

Applied Cryptographer

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Company: Quantstamp, Inc.

Location: Manama

Category: computer-and-mathematical

Quantstamp is looking for an appliedcryptographer. Quantstamp often deals with a wide range ofcryptographic problems, including reviewing implementations andtackling new theoretical problems using cryptography. For example,Quantstamp regularly receives requests to review code bases whicheither invoke or implement (custom) cryptography, as part of anaudit.

Zero knowledgeapplications are becoming more common across all ecosystems, andthis kind of math will also soon be the basis of several scalingsolutions - in particular, zero knowledge rollups. Theseapplications often use a zero-knowledge Succinct Non-interactiveArgument of Knowledge (zk-SNARK) proof system, or a zero-knowledgeSuccinct Transparent Argument of Knowledge (zk-STARK) proofs system.

Your day-to-day workwill involve doing research about various cryptographic protocols.Some protocols of interest will be those found in the code of ouraudit clients, others will be protocols of interest for futureaudits. In particular, in anticipation of audits of, or for,zero-knowledge rollup systems, you'll be asked tounderstand various zero-knowledge proof systems. There are a lot ofthose - we don't expect mastery in all of them, butmastery of at least one would be ideal.

You may be asked to compare and understandsystems you're not familiar with, and you should becomfortable doing this. Ideally you have a strong theoreticalbackground but can also read and write code (the specific languageis not too important). You will talk to other researchers withinthe company and may be asked to talk to clients directly, in atechnical capacity.

Required:

Mastery of at least one zk-SNARK/zk-STARK proof system, or a strong enough technical background to understand one (and this should have some direct connection to cryptography)

Ability to code and develop software. You should have experience with at least one major language, like Python, Java, or C; the exact language is not too important. You should be familiar with versioning software (specifically, GitHub), testing, and a familiarity with algorithms and data structures.

Ability to read and interpret academic papers

Ability to communicate ideas

Partial availability (2-6h) during EST work hours to allow for communication with the team.

Nice to Have:

Familiarity with existing ZK Rollup designs

Familiarity with multiple ZK proof systems

Strong coding ability

Knowledge of software development in Solidity, including testing and various development frameworks like Hardhat.

Familiarity with blockchain ecosystems, particularly Ethereum

Familiarity with Circom for writing zero knowledge circuits

Compensation & Perks:

Competitive compensation package (commensurate to experience) + performance and referral bonuses.

100% remote and flexible working hours.

Work from anywhere in the world.

Generous paid time off, including maternity/paternity leave.

Retirement/pensionplan.

Equity.

Rent your owndesk in a co-working space or work from anywhere at anytime.

Free gym membership or any virtualalternative of your choice.

Learn about thehottest and newest products and trends in the crypto space beforethey appear on any news outlets.

Join quarterlyall-expenses-paid retreats in exotic/exclusive locations with theteam.

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