Senior Cryptographer

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Company: golance

Location: Poland

Category: other-general

About

Our client is a blockchain company that simplifies data verification and web3 integration for

traditional businesses. They build user-friendly products where blockchain is abstracted away

from the user, aid in creating blockchain-based loyalty programs, and offer a comprehensive

platform for project launch, including a wallet and marketplace. They specialise in secure and

private on-chain data storage.

Job Description

As a backend cryptography engineer, your main responsibility will be to implement our clients

wallet backend API to perform different cryptographic operations like digital signatures and

encryption. A key aspect of your role will be to develop and integrate a Multi-Party Computation

(MPC) scheme to facilitate secure digital signature creation and data encryption processes

between our backend and mobile applications.

Responsibilities

● Develop and extend the API to support advanced cryptographic operations.

● Enhance the security measures for data flow and key management systems.

● Scale the backend infrastructure to efficiently serve millions of users.

● Implement and integrate a robust MPC scheme for secure digital signatures and

encryption between the backend and mobile applications.

- Manage and deploy backend solutions on Google Cloud Platform (GCP).

Requirements

Qualifications

- **Minimum 5 years of professional experience in backend development.**

- **Strong proficiency in TypeScript and Node.js.**

- **In-depth understanding and knowledge of cryptographic algorithms, including both symmetric and asymmetric encryption, and digital signatures.**

- **Proven experience working with various cryptographic libraries.**

- **Prior experience with the Ethereum Virtual Machine is desirable.**

- **Experience with deploying infrastructure on GCP or other major public cloud platforms is preferred.**

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