Position: Sr. Manager of Systems (Technical Architect)
Organization: CSforALL
Location: New York City Metropolitan Area Preferred (Remote)
Date: January 2022

About CSforALL

CSforALL's mission is to make high-quality computer science an integral part of the educational experience of all K-12 students and teachers and to support student pathways to college and career success.

CSforALL serves as the national hub for the K-12 computer science education movement. We convene and sustain networks to support the national landscape of school districts, nonprofits, for-profits, and government agencies that share the goal of rigorous, inclusive and sustainable CS education in the U.S.

Position Description

The Sr. Manager of Systems is responsible for designing the structure of CSforALL's IT systems and oversees technical tools to ensure the proper architecture is implemented. In this role, you should be an excellent communicator who is able to translate complex requirements into functional architecture. Additionally, this role will be a high-level planner who can manage a workload that spans maintenance, technical operations and future visioning. This role will bring hands-on experience on software development and be able to manage complex programs. Your goal will be to ensure our IT framework operates properly and in alignment with the organization's strategy. This role will be within the Operations division, leading our DevOps team which is responsible for all internally developed technology and selecting external software.

Management Expertise:

- Understand organizational strategy and design system specifications
- Evaluate and select appropriate hardware and software and propose integration methods
- Contribute to the development, refinement and execution of technical operating strategy and implementation plans, and play a key role in responding to the visions of programmatic and research needs
- Institute standard operating procedures within operating team and for other teams who require our service
- Mentor, coach and provide ongoing feedback to the Operations staff so they may build their skills, grow professionally, and execute against their goals
- Foster strong relationships and promote a service-driven, team-oriented, continuous learning, accountable work environment within the Operations team

- Collaborate with the Senior Director of Operations team ensure technical development responds to the organizational strategy aligned

Technical Operations Expertise:

Sr. Manager of Systems will oversee the assessment of high level ideas originated from the business and providing the following:

- Evaluate of any required architecture needed to provide the solution including third party packaged software vs. custom development and be able to articulate pros and cons
- Create solution architecture diagrams and documentation for existing architecture and proposed ideas
- Propose estimations for team size and timeline to complete projects to give feedback to the business
- Drive architecture and lead development team members to bring a solution plan into a working feature
- Contribute specific architecture experience with Content Management software and Customer Relationship Management software a big plus

Minimum Requirements:

Candidate should have at least 5 years of management or leadership experience

Candidate should have recent experience, with at least 5 years cumulative experience, building fullstack applications with a stack similar to the following:

- Experience with a modern front-end framework such as Vue, React, or Angular
- Experience with a front-end state management system such as Vuex, Redux, or ngrx
- Experience with RESTful service design, and developing services with a backend framework like Express and an ORM framework such as Sequelize.
- Experience creating and maintaining relational database tables to support an application (i.e. MySQL or Postgres)

Candidate should be familiar building applications in the cloud (AWS) using the following concepts:

- AWS IAM roles, and how to apply them securely to resources being used with an AWS account
- Familiarity with the AWS Amplify utility and how it can be used to build fullstack RESTful applications
- AWS Cognito and how it can be used to apply an oauth2 authentication pattern to a single page application

- Familiarity using the serverless pattern (AWS Lambda) to deploy RESTful services (through AWS API G/W), and using CloudWatch logs to debug them

Other tools:
- Experience with Git
- Experience with Linux Command Line
- Experience with Javascript unit testing tools and writing unit tests
- Experience with automated end to end tests like Cypress.io

Posting Date: January 2022

To apply: Send the following to recruiting@csforall.org:
- Subject line: Sr. Manager of Systems [YOUR NAME]
- Attach: cover letter and resume / CV