Software Engineer - BuildingKit
at WeWork Global Technology
San Francisco

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We are building software for physical space that uses data and technology at each point in the building process, such that it can make better sourcing decisions, improve its designs, build faster and smarter, and ultimately improve the lives of the people working within its buildings. Our state of the art technologies and dedication to technological innovation are key reasons why WeWork has been able to scale from operating one workspace location to more than 250 in just over eight years.

The mission of Core Platform is to provide a unified underlying platform on top of which all member products and services will run. We are building a backbone for all technical applications at WeWork. BuildingKit’s vision is to make all spaces programmatically instrumented and controllable via a common set of platform APIs. To make this happen, we need strong engineers, quick learners, self-starters, collaborating with cross functional teams. We are looking for experience in large scale data ingestion and real-time streaming pipelines pipelining, machine learning, creation and management of developer platforms and APIs, distributed data systems, and more.

Responsibilities

- Develop, maintain, and optimize a data pipelining engine
- Expose and manage the platform for building event data, streaming content, and outgoing controls
- Implement runtime environment for serverless Building Apps

Requirements

- 2+ yrs of industry software engineering experience
- Familiarity with data streaming frameworks eg. Apache Kafka, Spark, Flink, Beam
- Experience building and operating large-scale distributed data systems with Docker and Kubernetes
- Experience with development and management of versioned APIs

Nice to have

- Exposure to serverless application technologies, microservices
- Device instrumentation / IoT experience
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Knowledge Graph Engineer - BuildingKit
at WeWork Global Technology

San Francisco

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Responsibilities

- Ingest data models from a wide set of sources
- Design ontologies/canonical data schema to clean, consolidate and model relationships among different data sources as a knowledge graph model
- Maintain a horizontally scalable database system to support fast queries for the knowledge graph
- Expose and manage the knowledge graph platform for building event data, streaming content, and outgoing controls
- Collaborate with cross-functional teams, ML experts, Building Management experts, and Dev/Data platform
Requirements

- Knowledgeable about data modeling, data access and data storage systems
- Know how to work with high volume heterogeneous datasets
- Familiar with data engineering programming skills such as SQL, Java/Scala, Python

Nice to have

- Exposure to graph databases, RDF, OWL, SPARQL and related technologies
- Familiarity with data streaming frameworks eg. Apache Kafka, Spark, Flink, Beam
- Experience building and operating large-scale distributed data systems with Docker and Kubernetes
- Device instrumentation / IoT experience
- Working knowledge of machine learning

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System Engineer - BuildingKit - BMS

at WeWork Global Technology

San Francisco

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Responsibilities

- Design, program, configure, commission and integrate with Building Management Systems
- Develop building automation systems for large and/or complex spaces
- Develop and enhance smart building applications, aimed at optimizing energy consumption and cost
- Design and integrate systems with scalable BMS communication networks
- Identifying deficiencies and advantages in existing building services, and create solutions for improving WeWork’s building standard
- Provide engineering direction in support of the operations and maintenance of all MEP and BMS systems, including HVAC, energy management, building automation, waste-water treatment, equipment maintenance and general construction practices

Requirements

- Working knowledge of international and local mechanical, plumbing, and building codes
- Working knowledge of electrical and electronic theory and principles related to HVAC controls, direct digital controllers (DDCs), and their functional characteristics when used with mechanical and pneumatic components
- Working knowledge of BMS communication protocols and network topologies. General understanding how these protocols are implemented with specific knowledge of installation and configuration best practices
- Broad knowledge of mechanical / electrical / life safety engineering infrastructure and coordination strategy with focus on mechanical design
- Strong analytical and problem-solving skills

Nice to have

- Commercial construction projects experience
- HVAC load modeling experience
- Hands on coding experience for BMS controller and drivers.
- Building performance and diagnostics
- Deep reinforcement learning control method
- Net-zero energy consumption system design and development

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System Engineer - BuildingKit - RTLS
at WeWork Global Technology
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Responsibilities

- Develop signal processing algorithms for human activity recognition, indoor locationing and navigation systems
- Develop smart office applications with location-based features
- Develop vision-based locationing systems that process multi-modal information from sensors
- Plan and execute cutting-edge research to advance facial recognition, tracking and locationing from proof of concept to production

Requirements

- Expertise in multi-radio location technology, sensor fusion and indoor positioning
- Experience with BLE and IoT devices based indoor locationing technologies
- Experience in working with data pipelines and integrating machine learning models in real-time/live environments
- Experience with video based object detection and recognition based on deep learning
- Strong analytical and problem-solving skills
Nice to have

- Working knowledge of Cisco and Aruba wireless networking solutions
- Experience in working with data from RGB cameras, IR cameras, depth cameras
- Experience in technologies for AR/VR, 3D graphics including rendering and simulation

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Software Engineer - Access
at WeWork Global Technology
San Francisco

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Responsibilities

- Build, manage, and scale WeWork’s next generation core Access system, incorporating elements of both RBAC and ABAC
- Build, manage, and scale a common Resource Calendar service for management of time bounded allocations
- Integrate Access and/or Calendar systems with WeWork core experiences such as physical access control, app access, and goods purchase
Requirements

- 2+ yrs of experience
- Understanding of data infrastructure models: RDBMS, NoSQL, Graph DBs, K/V Stores
- Experience with data-heavy large-scale distributed systems
- Data modeling and query optimization expertise

Nice to have

- Expertise or familiarity with geo partitioning schemes
- Direct experience with RBAC, ABAC, and/or calendaring/scheduling systems

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Software Engineer - DeviceKit

at WeWork Global Technology

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DeviceKit’s goal is to build the connective tissue needed to deliver experiences at the intersection of people, space, and technology by designing, developing, and integrating hardware and infrastructure. As Software Engineer on the Device Bridge team you will build core services to manage the full lifecycle of devices, as well as services and integrations to actuate devices and a set of APIs for other teams to control the physical space.
Responsibilities

- Build, manage, and scale WeWork’s Core Device Systems for full device lifecycle management
- Deliver high-quality code, in accordance with standard methodologies
- Integrate infrastructure with other Core Platform services to offer a cohesive product

Requirements

- 2+ yrs of industry software engineering experience
- Experience building and operating large-scale distributed containerized systems (preferably Docker and Kubernetes)
- Experience developing and managing versioned APIs

Nice to have

- Exposure to serverless application technologies, microservices
- Experience with cloud computing services, e.g. AWS, Google Cloud Platform, Microsoft Azure
- Device instrumentation / IoT experience
- Exposure to hardware development
- Real-time computing systems
- Embedded linux development
- On-premises infrastructure and deployments

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Software Engineer - SpaceKit

at WeWork Global Technology

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Space Kit is responsible for developing and extending a database of all physical space within the WeWork family of companies. The ultimate goal is to represent in data all possible physical space information, be it building, floor, room, or object. This includes information about physical attributes (square footage, usable desks, materials, etc) as well as three-dimensional modeling of the space.

Responsibilities

- Build, manage, and scale WeWork’s Core spatial data model
- Deliver high-quality code, in accordance with standard methodologies
- Integrate infrastructure code with other Core Platform services to offer a cohesive product

Requirements

- 2+ yrs of industry software engineering experience
- A strong understanding of relational data systems, both design and implementation
- Experience developing and managing versioned APIs

Nice to have

- Experience working with and building out microservice systems
- Exposure to gRPC service design and implementation
- Event driven data architecture expertise

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