

JOB DESCRIPTION

Job Title: Senior Software Engineer
Reports to: Software Development Manager
Location: Home based, UK

Company Overview

ONVU Technologies is a privately held Swiss group, operating out of bases around the globe including UK, US, India, and Turkey. Through annual investment in R&D, talent acquisition and strategic partnerships we go to market via our three business units Oncam, ONVU Retail & ONVU Learning focused on smart video, IoT and cloud applications for Security, Retail and Education.

We believe in developing Empathy led technology to answer genuine challenges in the vertical markets we address by enabling users to leverage the technology in a way that solves their problems. Whether that is creating business intelligence insights for retail via video, providing a safer environment in an airport or helping teachers create better student outcomes by leveraging IoT devices in the classroom via cloud connectivity for insight and CPD.

Role Overview

ONVU Technologies is excited to be adding a Senior Cloud Services Engineer/IoT back-end focussed developer to its growing development team.

As a key member of the Engineering team you will be fully hands-on but with the additional responsibility as a technical lead within the team developing high performance solutions on our microservice based Cloud platform with a strong focus on quality, security and scalability. You will also ensure that the cloud platform is fully integrated with the front-end services, embedded gateways, routers and cameras.

To achieve this, you will work closely and collaboratively with the architecture team, developers, testers, product managers and software development managers.

You will provide technical leadership to a highly skilled experienced development team within a culture of empowerment and collective responsibility for product success.

Responsibilities

- Problem solves, design and develop solutions for our advanced ONVU cloud platform.
- Provide technical leadership for the development of a microservice/serverless AWS lambda-based architecture.
- Contribute as a senior software engineer in the team
- Work closely with Architects, Software Developers, Testers and DevOps engineers to develop high quality performant software in an Agile SCRUM based environment.
- As part of the technical design team across the company participate in technical design and specification sessions.
- Take technical ownership of the implementation of the projects assigned to you.
- Support the whole development team with technical questions, problem solving and design queries.
- Design of reusable code and libraries for future use.
- Design of well-structured comprehensive and coherent API's
- Detailed design of database schemas and data structures.
- Lead the technical integration between the cloud the front-end user facing elements and embedded gateways, routers, and cameras.
- Play a lead role in the definition and implementation of security and data protection within the products.
- Design and develop in a way to optimize the back-end software for maximum speed and scalability whilst minimising cloud platform costs.
- Work closely with the DevOps team to ensure optimal implementation of the solution on AWS platform.
- Design and develop automated unit, component and system tests in parallel with product software development.
- Execute automated and manual exploratory tests
- Review Product Requirements and create technical implementation responses and specifications
- Write technical design documentation and represent highly technical concepts in a clear graphical form which can easily be understood, reviewed, implemented, and tested by other members of the team.
- Investigate and analyse root causes of technical issues and performance bottlenecks to pinpoint problem areas in the system
- You will also be required to carry out any other duties which may reasonably be required of you.

Essential Requirements

- Strong technical competence and a technical problem-solving mind.
- Strong AWS platform development experience using serverless (lambda) based architectures and microservices.
- Database technologies – including MySQL, NoSQL, Graph and Redis databases.
- Networking concepts and protocols: IP networking, socket programming, S/RTSP, HTTP, SOAP, ONVIF, UPnP, IPv6
- Working knowledge of Kubernetes and Docker
- Event driven systems design
- API design and implementation
- C++, Python, Golang, Typescript/Node.js
- C#: Mono, .Net Core, Service Stack framework, Entity Framework, Java
- Strong knowledge of security concepts and technologies – including TLS, JWT, signed URL's, etc.
- Linux - deep knowledge: SSH, networking, system, filesystems, cron, etc
- Good understanding of AWS components and technologies including but not limited to AWS IoT core, Amazon API gateway, SNS, SQS, Step functions, ELK, Cloud Front, CloudWatch, EC2, S3, Route 53, Amazon VPC, Kinesis Video Streams and Elasticsearch would be desirable.
- Apt packages - creation and support
- Bitbucket pipelines - creation and support
- Git version control, branching strategies, Gitflow process
- Ability to resolve technical issues across a complex codebase of proprietary and 3rd party software
- Strong foundation in embedded system design and OO concepts
- Automated testing experience – unit testing, TDD, BDD, and acceptance testing.

Skills and Understanding

- Ability, confidence, and personality to provide technical leadership within a team.
- Effective documentation, communication, and teamwork skills
- Clear speaking, listening and written communication skills
- Ability to adapt to change in a fast-paced environment
- Ability to negotiate and influence
- Ability to problem solve
- Ability to meet tight deadlines
- Ability to effectively deal with conflict
- Ability to multi-task and stay organized
- High attention to detail
- Ability to stay calm under pressure
- Ability to use own initiative
- Competent in Microsoft 365 environment and tools