

Node.js AWS Developer

Job reference GWTI-JS020

Introduction to GWTInsight (GWTI)

GWTI is a UK based PropTech Company specialising in creating real-time data driven insights on how commercial buildings are performing. We develop and employ patented technologies that underpin reduction in risk, cost and carbon and support the development of innovative **products** and solutions for our **clients**.

Established in 2017 our origins where in seeking improved risk management of commercial buildings for insurance companies through the use of IoT and telematics. An approach that had significantly disrupted the fleet and young driver insurance market in previous years. Today we provide technology products to a broad spectrum of clients.

We are an agile company retaining the drive and spirit of a start-up, we are focused on client needs and adapt our technology to ensure that we deliver value in ever project that we take on. We value open and collaborative relationships within our organisation and with our clients. A passion for valued and sustainable outcomes and challenging the ordinary underpins an innovative and responsive culture. We strive to be the best we can be, individually and collectively.

We are expanding our technology development team.

You will need the discipline to be able to work effectively from your own base, team working with co-workers using our virtual collaborative environment. You will also need to attend regular team days in central London or the South East and have the flexibility to attend occasional customer meetings.

Our software engineers develop using leading technologies. TypeScript is predominantly used end-to-end in our software stack from device level software through to cloud processing and UI.

We embrace Linux, No-SQL, and server-less architectures. You will have the opportunity to gain experience across device, cloud and client interface levels; however, you will have a focus area that you own - based on your background, skills and aspiration.

Node.js AWS Developer Job Role

We looking for and experienced and highly motivated software developer / engineer to continue the build of our next generation of cloud application and device management solutions based on Amazon AWS. You will be part of a team working with AWS to further develop and build GWTI's IOT solution built around the GWTI Observer device, and JavaScript (TypeScript) to talk to and process data from multiple sensors and devices.

You will have a minimum of 2 years solid experience developing, deploying, and debugging serverless JavaScript applications which run in AWS Lambda. You will have an understanding of core AWS services and AWS architecture best practices. In addition, experience in any of the following would be advantageous.

- Dynamo DB
- Greengrass and AWS IoT Core
- CloudFormation, API gateway



- AI, Tensorflow, AWS ML and Deep Learning Frameworks
- Continuous Integration, Continuous Deployment, DevOps, Automation
- Test Driven Development, Agile
- MQTT
- Python
- Angular

Your primary focus will be the development of cloud based logic and services, definition and maintenance of the central database, and ensuring high performance and responsiveness to requests from the front-end and service interfaces.

Responsibilities

- Working with and supporting co-workers in the development of an efficient and joined up product
- Writing readable, reusable, testable, and efficient code
- Engaging with co-workers in test driven development
- Design and implementation of low-latency, high-availability, and performant components
- Implementation of security and data protection

Skills and Qualifications

- Deep understanding the nature of non-blocking and asynchronous programming and its quirks and workarounds
- Strong proficiency with JavaScript or TypeScript
- Professional, precise communication skills
- Deep knowledge of Node.js practices and commonly used modules based on extensive work experience
- Understanding fundamental design principles behind a scalable application
- Creating self-contained, reusable, and testable modules and components
- Ensuring a clear dependency chain, in regard to the app logic
- Writing non-blocking code, and resorting to advanced techniques such as multi-threading, when needed
- Understanding of accessibility and security compliance
- Service authentication and authorization between multiple systems and environments
- Integration of multiple data sources and databases into one system
- Implementation of RESTful Web Services
- Creating database schemas that represent and support business processes
- Implementing automated testing platforms and unit tests
- Proficient understanding of code versioning tools, such as Git
- Experience of developing in Linux environments and taking advantage of Linux command line tooling
- Experience in deploying to headless and serverless systems.
- Basic understanding of front-end technologies advantageous, such as Angular, HTML5, and CSS3
- Architecting and automating the build process for production, using task runners or scripts
- Documenting the code inline using TypeScript annotations
- Writing extensive unit tests using automated TDD tasks
- Creating e2e test suites for all components
- Creating configuration, build, and test scripts for Continuous Integration

To apply please send CV with covering note to info@gwtinsight.com

