

## Background

Onwave UK Ltd are a fast-growing business working in the IT Networking and Telecoms sector, based out of Kings Hill, Kent. Onwave specialises in working with large multinational customers within the Construction and Utilities sectors. We are an independent Internet Service Provider (ISP) that supports Customers with solutions and services based around mobile, wireless and fixed line technology.

As well as providing connectivity services the business, also works very closely with its customers to develop solutions that solve specific business challenges, this means that we need great problem solvers and communicators.

## Key Objective

We are seeking to recruit a back-end developer to create Python 3 scripts to provide backend and API services for our web-based products.

You will be working within the Product Development Department, a small highly-skilled team designing and creating new technologies and innovations for our Customers. The role is full time and permanent, based in Kings Hill, Kent. You will report directly to the Head of Product Development.

## Responsibilities

- Writing Python 3 code modules – styled in conformance with best practice;
- Showcasing new code via code walkthroughs for peer review;
- Supporting the Front-End Developer integrating APIs with front-end systems;
- Reviewing new and existing pages to ensure security is watertight and to demonstrate compliance with legislative requirements and industry best practice;
- Helping with other activities as and when required.

## Skills and Experience

### Required:

- A minimum of three years' experience developing Python 3 code in a business environment;
- Demonstrable ability to create Python 3 code which is neatly structured, uses sensible object names and is liberally commented to allow maintenance and debugging by others;
- A portfolio of previous Python 3 development work (which Onwave will review) for a business showing skills in these fields;
- Familiarity with Flask and FastAPI;
- Sufficient knowledge of HTML and Javascript to provide complete support to our Front-End Developer in integrating API calls on new and existing web pages, and to peer review front-end code;
- Familiarity with security principles and ability to apply these to backend code;
- Creative and able to make Python 3 functions from scratch to achieve defined objectives;
- Experience of the following:
  - using Github-based repositories for collaboration and version management;
  - developing and deploying Python code in a Linux environment;
  - Apache2 and configuration to allow Flask APIs to function efficiently;
  - creating small SQL scripts using ODBC to access SQL Server databases;
  - accessing REST and SOAP APIs from Python 3 scripts;
  - using Twisted with Python 3 to allow asynchronous serial communications over local ports and via TCP;
  - writing Python 3 code which interfaces with web pages using websockets;
  - hashing and salting as methods to save secret data;
  - using Linux system services to allow background execution of Python 3 scripts;
  - writing bash scripts (and crontab) to support Python 3 development work;
  - using Virtual Environments to allow containerised library access to Python scripts;
  - writing and using Unit Tests;

- Ability to work in a disciplined and structured manner to deliver content to prescribed timescales;
- Ability to work as part of the Product Development team on the development of conceptual designs.

**Desirable:**

- Experience of migrating legacy Python 2.x code to Python 3;
- A degree in a computing-related subject;
- A qualification in IT security;
- Experience of working in both agile- and waterfall-type project management regimes;
- Experience of test-driven development;
- Familiarity with development environments in Windows, Mac and Linux systems;
- Appreciation of techniques required to integrate Python 3 code with hardware devices like sensors and other types of I/O;
- Familiarity with development of apps for Apple iOS and Android would be advantageous;
- Familiarity with VB.NET would be advantageous.

**Requirements (Personal Attributes)**

- Proven ability to complete tasks in a timely manner without close supervision;
- Proven ability to estimate required timescales and meet consequent deadlines;
- Ability to work on own initiative;
- Ability to integrate within a small team environment;
- A strong level of verbal and written communication skills;
- Exceptional interpersonal and communication skills;
- Strong work ethic, professional and positive attitude.

**Other**

- Valid Full UK Driving Licence.