

Internship Subject

VPN Management Interface Website Development

1. Company introduction

Pixium Vision, created in December 2011, is a bioelectronics and brain machine interface technology company specialized in neuromodulation application whose mission is to create a world of bionic vision for those who have lost their sight, enabling them to regain partial visual perception and greater autonomy.

Prima System features a miniaturized and totally wireless sub-retinal PRIMA implant, a pocket computer equipped with breakthrough algorithms, and a pair of glasses which captures the visual scene.

Pixium Vision is currently conducting in France and in the United States, two feasibility clinical trials with PRIMA, for patients with severe vision loss due to retinal degeneration caused by the dry atrophic form of Age-related Macular Degeneration (AMD), for which there is no treatment available to date.

2. Internship Context

When the patient is first equipped with the Prima System, rehabilitation sessions with a vision specialist are required.

Those sessions can either take place at the hospital or remotely via a VPN network using VPN servers that we have developed.

We would like to develop a web interface to ease the management of the different VPN servers.

3. Your mission

The mission will take place at Pixium Vision offices in Paris near Bastille.

The main goal is to develop a website that will be used internally to manage the different VPN servers.

The website shall allow automation of the following activities:

- Deploy new VPN servers (by running provided installation scripts)
- List existing VPN servers
- Manage existing VPN servers
 - Allow user account creation with different access rights (admin, user, reader...)
 - Generate / revoke / download VPN profiles
- Allow to download VPN server logs
- Allow to monitor vulnerabilities of installed packages on the VPN servers.

During the development of the website, you will be responsible for the deployment and maintenance of VPN servers.

You are expected to document your work during its development and produce a report at the end that will allow maintenance of the solution.

4. Your profile

- You are an engineering student at Bac+4 or Bac+5 or equivalent.
- You are looking for a 4 to 6 months internship and are willing to start around the start of March.
- You already have experience with
 - Website development (PHP/HTML/CSS/JAVASCRIPT/SQL)
 - Linux and bash scripts
 - Git
- You are motivated and eager to learn new skills and autonomous
- You are comfortable with English reading and writing (speaking is a good plus)

5. Contact information

In case of interest, please email your CV and cover letter to the following address:

talent@pixium-vision.com