Full Stack Developer Intern – Spring 2022 – Job Req R1924

Quadrus Medical Technologies, Inc. is a nascent healthcare startup. We aim to revolutionize critical care medicine with technologies rooted in advanced engineering. We specialize in artificial intelligence and physiology-based solutions for cardiovascular, respiratory, and renal systems. We strive to bring personalized diagnostic and therapeutic information to the care team when and where it is needed most.

What you will be responsible for:
- Develop and validate software for medical devices and clinical web/mobile applications
- Implement modular layouts for use in various medical web applications
- Design database schema to include users, institutions, product/service subscriptions
- Develop APIs and interface with medical systems and devices
- Develop, verify, and validate web/mobile software applications
- Design and develop user interfaces for medical devices/software
- Port developed algorithms into product-level web/mobile applications
- Contribute to technical documentation for product software
- Participate in research and development through presentations, publications and meetings

What we expect you to bring to the table:
- Proficiency in web programming (JS, HTML, CSS, Node.js, PHP, etc.)
- Proficiency in web protocols (HTTPS, SFTP, etc.)
- Proficiency in object-oriented programming (C/C++, C#, Java, Swift, Python)
- Experience in cloud architecture and programming (AWS, IOT, etc.)
- Familiarity with third party interfaces (REST, SOAP APIs)
- Familiarity with authorization and authentication protocols (SAML, OAuth2, OpenID)
- Experience in virtualization and containerization (Docker, Kubernetes, etc.)

What we consider to be a plus:
- Experience in UI development (Qt, GTK, VTK, Cairo, Tkinter, etc.)
- Experience with web servers (Apache, NGINX, Tomcat)
- Proficiency in networking technologies (TCP/IP, OSI, VPN)
- Experience in embedded systems, shell scripting, UNIX-based systems, ARM Linux
- Experience with serial communication (I2C, RS232/UART, SPI)

Preferred background: MS in Computer Science, Electrical Engineering, Computer Engineering, Systems Engineering, or similar field.
Position Duration: 3-4 months. Potential to hire.

Note: This position is on-site at our office location. Please only apply if you would be able to fulfill this requirement.