Job Description

We are looking for a Software Architecture position (Temporary 1 year) in the School of Computer Sciences, University College Dublin, Ireland. The position is fully funded through the EI Blood Brother/BB1 1.0 project under the supervision of Dr. Nhien-An Le-Khac (Principal Investigator). Start Date: February2021.

Position Summary:

Blood Brothers is a digital health platform that empowers people to better understand and hence manage their risk of developing diabetes. Our cloud-based, cyber-secure platform combines a diverse range of data sources provided by the user to deliver personalised health insights. The goal of the project is to develop a market-ready prototype of the digital healthcare platform, acquire more pilot partners, and spin-out a start-up company. This position is for a Full Stack Software Engineer or Software Architect. The successful candidate will have the opportunity to hire additional tech team members to build out a winning team for the project. They will be expected to work closely with other members of the team in the School of Computer Science and School of Medicine. They will be responsible for developing a customer-facing digital healthcare platform. The successful candidate will have the potential to be a founding member in the spin out company with the expected long-term role being CTO or similar. The primary task will be to design, develop and maintain the platform. Additional tasks may include intern supervision, writing a business plan and acquiring pilot partners. In general, as the project progresses, the tasks and responsibilities listed may be expanded and shared between the team, employees will be expected to work as part of a team to ensure project success.

Salary Range: €55,000 - €75,000 per annum (Salary offered will be commensurate with qualifications and experience)

Principal Duties and Responsibilities:

● Work with the Principal Investigator and team members to develop a new, cutting-edge healthcare solution.

● Design, configure and manage a secure Cloud–based healthcare platform. The platform should be flexible and scalable to meet all relevant regulations for target regions.

● Coach software developer teams to deliver a best-in-class high quality and secure healthcare IT system.

● Design and implement healthcare databases, product specifications

● Re-engineer applications on current products, APIs, third-party software to be deployed on the new built system

● Adhere to all the requirements for quality, security and scalability of the desired product

● Full development life cycle, running unit tests, and fixing bugs.

● Undertake any other duties as assigned by the Principal Investigator or nominee.

Selection Criteria:

Mandatory:

● 5+ years of experience with coding in various languages (Java/C++/Python etc.)

● 3+ years of industry experience minimum.

● 2+ years of experience as a Software Architect/Senior Full Stack or similar role

● Previous experience deploying AWS/equivalent cloud software (Google/IBM)

● Experience with software development lifecycle (SDLC) processes

● Experience with service-oriented architecture (SOA)

● Knowledge of HTML/CSS, JavaScript and UI/UX design

● Experience with data modelling and database design

● Strong written and oral English communication skills

Desirable:

● MSc. (MEng.) in computer science, engineering or similar relevant field

● Experience in the Healthcare/Pharma industry would be a plus.

● Experience building elastic software architectures would be a plus

● Outstanding knowledge of software design and architecture

● Excellent leadership skills

● Ambition to join a start-up for the foreseeable 1-3 years. Potential to be eligible for a C-suite roll-on spin-out

If you are interested in applying for this position, please send your curriculum vitae to Dr. Nhien-An Le-Khac (an.lekhac@ucd.ie). Informal enquiries also only to Dr. Nhien-An Le-Khac.