



# Helping Clinicians Cure Cancer with Artificial Intelligence and Big Data



Are you ready to join the fight against cancer and improve the lives of millions of patients?  
Do you want to work with machine learning technologies that will redefine medicine?  
Join the Optellum team and help us shape the cancer care of tomorrow!

## Lead Software Architect

### Your Mission: Would you like to

- Create Big Data infrastructure that will turn thousands of Terabytes of unstructured medical data into novel biomarkers?
- Help bring to market healthcare AI products that will be deployed to thousands of hospitals?
- Build up and lead Software Development team from the ground up and have massive impact from Day One?

### Required Skills: You must have

- Excellence in modern mathematical algorithm implementation (Python, C++, or similar) with a focus on code quality.
- Proven ability to design software architectures from the ground up.
- Proven ability to establish the entire development environment from scratch (choose people, tools and technologies).
- Strong familiarity with cloud computing concepts and platforms (Amazon AWS, Microsoft Azure, or similar)
- The flexibility to feel at home in a technology start-up with a small team of scientists, analysts and testers.

### Desirable Skills: One or more of these would be a definite plus

- Strong degree in a quantitative discipline (e.g. Computer Science, Engineering, Physics).
- Full-stack all-rounder: from machine learning through cloud back-end to front-end & reporting.
- Leadership: Responsibility for our entire software development, and full freedom in determining the direction it takes.
- Previous experience in a startup or a fast-growing SME a big plus.  
Prior experience in a regulated industry (e.g. medical devices, aerospace, financials) a plus.
- Experience with computer vision, graphics and/or machine learning. Familiarity with scientific programming (e.g. Boost, NumPy), deep learning (e.g. TensorFlow, Caffe) and big data frameworks (e.g. Spark) a plus.
- Activity in open-source projects and community leadership (presents at meetups, conferences).

### What We Offer

- Fast professional growth: significant responsibility for your project, and freedom in determining the direction it takes.
- Opportunity to apply in practice and rapidly grow your knowledge of cutting edge AI technologies.
- Competitive salary and additional benefits which will grow with the company.
- Significant equity to benefit from our success (stock option plan).
- Flexible working hours from the outset; with the possibility of negotiating a working location in the future.
- Work permit sponsorship to the most exceptional candidates
- Beautiful office in Oxford's historical center, with great connectivity (5-min walk to the train station, 1hr to central London).

### About Us

Optellum's vision is to reshape early cancer diagnosis and treatment by using machine learning to unlock deep insights in huge medical image databases. By pooling the collective experience of thousands of doctors, we will uncover patterns not obvious to the human eye and put expert-level decision support at the fingertips of any clinician.

We are a team of award-winning AI and imaging experts who met at Oxford's world-renowned computer vision laboratory, and we have track records of bringing innovation to market (including multiple exits, IPO). We are backed by an Advisory Board comprising world-leading clinicians and experts in deep learning and diagnostic imaging; and Oxford's most prominent investors with track records in medical technology startups.