

Full Stack Developer

Python + React.js

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About us

PlanOpSim is a start-up company focusing on optics and photonics. Our mission is to make nano-photonics design easy and accessible. PlanOpSim develops a numerical simulation software to model and design meta-surfaces.

Meta-surfaces (for example nano-structured lenses) are an upcoming field in the nano-photonics industry. The technology has been named as one of the top 10 emerging technologies by the World Economic Forum. PlanOpSim's software is at the heart of this technological breakthrough. It is used for the design of nano-structured photonic components in numerous domains like telecom, VR/AR devices, holography, medical, automotive and metrology. Our users are companies and research centres from Sydney to Silicon Valley.

PlanOpSim is a start-up located in Ghent, Belgium, in the heart of a thriving region for photonics technology.

Job description

As Full Stack developer your primary responsibility will be implementing, testing and documenting new features in PlanOpSim's software. As well as contributing to implementation and architecture decisions on new simulation products. On the front-end side you will program a user-friendly web-application for the design of optical components. On the back-end you will optimize the implementation of physical and mathematical recipes as well as test alternative recipes for improved computation performance. Additionally, you will provide instructions, training and advice to your colleagues and sporadically to users and distributors.

You will occasionally perform functional analysis of additional features, translating them into clear task descriptions for the software development team. Assess the impact of implementation choices on software performance and provide clear guidelines to the product owner on the impact of new developments.

You will adhere to best practices in software development for as robustness, quality assurance, and documentation.

Typical tasks will include:

- Analysing and implementing computational algorithms in an efficient program
- Documenting your code in a clear and structured format
- Developing interfaces between PlanOpSim's software and third-party software
- Optimizing your code for high computation speed and accuracy

Depending on your interest, you can evolve into roles and tasks like software architecture, DevOps, or customer projects..

Your profile

The ideal candidate would have:

- A Master's degree (M.Sc., Industrial or Civil Engineer) in Computer Science, Electronics Engineering, Physics or equivalent through experience
- Experience in software development in Javascript/React.js and/or Python/Django and MySQL databases
- Experience with AWS
- Experience with the following frameworks and modules: Celery, Numpy, Selenium
- Fluent proficiency in English, speaking Dutch is a plus
- A self-starting personality, who takes initiative and communicates clearly and openly

The following are considered an extra advantage:

- Experience/interest in computational science
- Prior knowledge and experience with optical technology
- Experience with C++ and other programming languages

What we offer

You will receive a competitive salary and extra-legal benefits in line with your level of experience. An additional remuneration in company stock options is available if interested.

You will be joining a fast growing start-up and have a strong impact on the company's growth and future direction. Depending on your experience partial or complete remote work is possible.

By joining PlanOpSim you will be working at the cutting edge of technology with many opportunities for personal and professional growth. You will develop skills in the latest technologies in distributed computing, photonics and ML/AI. As a young technology company we foster an open and flexible work environment.

Contact:

Send in your résumé and application letter to lieven.penninck@planopsim.com