Job Opportunity

Job Title:	Software AI/ML Engineer (Masters Degree) – Women's Health
Job ID:	#T25002
Job Type:	Full-time, 6 months (opportunity for extension)
Work Location:	Hybrid work (mainly virtual; in-office 1 day per week)
Office Sites:	2020 Winston Park Dr, suite 200, Oakville, Ontario, L6H 6X7
	Innovation Factory, 178 Longwood Rd. S, suite B21, Hamilton, ON, L8P 0A1
Start Date:	Feb 3, 2025

COMPANY OVERVIEW:

A startup company of Optimal Innovation Group Inc., the Healthyher.Life is a Canadian women's health navigator web platform that provides women access to a suite of trusted hormonal health solutions, including a Knowledge Center, telehealth e-consults, our AI Health Concierge, Community Forum and Marketplace of health products. Through our navigation platform, our mission is to help women better manage a life-disrupting hormonal health condition such as Menopause, PCOS, Endometriosis, PMDD and Thyroid disorders. The platform has a growing community of 350+ registered members and 1800+ email and social subscribers; our venture has participated in several of Canada's top tech accelerator programs, including NEXT AI, Collision 2024, Communitech, Innovation Factory and Femtech Canada.

JOB SUMMARY:

We are seeking an experienced **Software AI/ML Engineer (Masters Degree) – Women's Health** (**Job ID #T25002**) to join the team for a 6 month contract (with opportunity for extension), and support the development of our AI-technology solutions for women's health applications – namely our AI agent and virtual assistant, Hailey™ – Your AI Health Concierge™. The AI technology is at an MVP stage and commercially operating, with a plan for scaleup integration and feature development. The project has a broad and evolving scope, and primarily will involve developing a solution architecture, collecting and refining user data and to further optimize the foundational AI model (several options), analyzing the results and optimizing the workflow and data inputs to achieve good results under stress testing. We are seeking a smart, versatile and self-starter individual who is passionate about women's health, who can work semi-independently on the technical development which will be supervised by a remote developer and CTO team; and who care deeply about applying their skills and knowledge for high impact health solution of interest to more than 500 million women globally. The need for continuous learning, diversity of knowledge and skills, and a fast pace to build and deliver a useful product is something you thrive on.

DUTIES & RESPONSIBILITIES:

The range of work responsibilities will include:

- Designing and development of a web platform application that offers solutions in support of women's hormonal health care (see https://www.healthyher.life/)

- Perform a needs analysis, plan workflow outlines, and follow defined methodologies to develop or optimize the selected AI software models to perform the required functions.

- Conduct research in women's health data to gather appropriate datasets from which to train the AI models. Organize, process and refine the data to provide quality information for the AI model.

- Conduct iterative application testing of the AI models, to achieve results with high accuracy and consistency, to ensure a high quality experience for users.

- Identify and implement specific tools (BERTscore, semantics tools) to evaluate performance of AI model.
- Apply knowledge to develop agentic AI functionality where possible, for integration with the platform's solution architecture.
- Regularly review the latest AI technology and business literature, workshops, and conduct competitive analysis for related AI technology applications.

SKILLS & QUALIFICATIONS:

- Minimum 1 year of cumulative industrial work experience in software development (preferably in digital health technology), computational science (biology, chemistry, etc), data science (NLP), and building AI/ML models with the latest tool kits (e.g., CNN, PyTorch, TensorFlow, Random forest, BERT-architecture models), with experience in using relevant LLMs.
- Recent graduate with a university Master's Degree in specialized in computer science/Math, AI/ML software development, AI data engineering, or similar.
- Past experience as in full-stack software development for web applications; experience with common programming skills: Python, Java, C, MSQL, Mongo, R, Django, HTML, PHP, JavaScript, CSS/HTML, React, .NET, JSON, and similar.
- Experience with UX/UI front-end development and UI design would be an asset, using common tools such as: Figma, React, MSQL, Javascript, CSS/HTML, PHP, etc. **Please provide link to your portfolio on Github.**
- Advanced skills in project planning and coordination, visually organizing workflow information, good critical analysis skills, and confidence in your communication.
- You take accountability for the high quality of your development work, and you demonstrate ethical, responsible and trustworthy work and personal behaviours.
- You care deeply about women's health issues and have gained first-hand knowledge about femtech sector. You have knowledge and some past experience with clinical datasets and protecting patient health information.
- Confidence to work independently with minimal technical guidance from a senior software developer (about 1-2 times per week); able and willing to work collaboratively with team members by sharing knowledge responsibly and respectfully with team members.
- We are seeking an individual with 'step up leader' personality trait - someone who learns quickly, able to adapt swiftly to changing priorities, and 'steps up' to take initiative when appropriate, with management consent.
- Fluent in English language, especially for written skills. French bilingual skills are an asset. Highly proficient in commonly used work productivity software (MS 365, Google).

WHAT WE OFFER:

- Note: this job is only open to Canadian citizens, Permanent Residents, and those who are legally authorized with work permit to work in Canada.
- Full-time hours with salary (ranging from $30 – $40/hr, depending on skills and experience)
- Hybrid work, in-person group work at business offices in Oakville and Hamilton (Ontario). Remote work permitted for out of province Canadian candidates.
- We provide professional development opportunities to learn and attend workshops and professional conferences for AI/ML development.
- Monthly paid lunch outing with the team (if working in the Greater Toronto-Hamilton-Waterloo Areas).

If this internship opportunity interests you, and you possess the skills and qualifications to succeed in this role, then please forward your resume to careers@healthyher.life. This job is only available to Canadian citizens or permanent residents of Canada. We thank all applicants who express an interest in the job opportunity, but only those applicants who meet our requirements will be invited for an interview. OIG offers valuable business training, continuous learning and mentoring in technology innovation and commercialization consulting. OIG's hiring practices are aligned with Canada's human rights laws and Ontario labour laws, and we ensure that every person is treated equally and fairly for employment, regardless of race, color, creed/religion, gender, sexual orientation, marital status, age, mental or physical disability.