

## Job Opportunity

**Job Title:** Senior Software AI/ML Developer (Masters Degree) – Women’s Digital Health  
**Job ID:** #T24005  
**Job Type:** Full-time, 12 months  
**Work Location:** Hybrid work (virtual and/or in-office)  
**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:** April 15, 2024 or May 1, 2024

### COMPANY OVERVIEW:

Optimal Innovation Group Inc. (OIG) is a Canadian innovation consulting firm that develops technology innovation and commercialization strategies for technology companies and non-profit organizations to support their venture creation, growth, scale up and business diversification. In 2023, OIG launched [Healthyher.Life](https://www.healthyher.life), a new women’s health platform that offers a community hub, Knowledge Center, telehealth e-consults, and health products marketplace, with the mission to help women get access to trusted health professionals, health products and treatment solutions to manage a chronic and life-disrupting hormonal health condition such as endometriosis, PCOS, menopause and thyroid disorders. The platform has a growing community of 150+ member-users and 700+ subscribers, and we’re on track to offering new AI-powered digital health solutions as beneficial new features of the platform.

### JOB SUMMARY:

We are seeking an experienced, senior-level **Senior Software AI/ML Developer (Masters Degree) – Women’s Digital Health (Job ID #T24005)** to join the team for a 12 month contract (with opportunity for extension), to help develop the AI-powered digital health solutions for women’s hormonal health applications. The project is at the beginning stages of development, and will involve optimizing the solution architecture, collecting and refining the source data developing a suitable 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 person who can work semi-independently on the technical development, who is also passionate about women’s health issues, and wants to build an impactful e-health solution for over 500 million women globally. The continuous learning and the diversity of knowledge 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-model (from commercial options to in-house developed alternatives).
- Able to conduct research in women’s health science to gather appropriate published datasets from which to train the AI models. Organize, process and refine the data to provide quality information for the AI model.
- When integrated in the client platform, conduct iterative application testing of the AI model, to achieve high accuracy results and deliver a seamless experience for the client-user.
- Regularly review the latest industry literature, webinars/workshops and white papers that relate to the project technology.

### SKILLS & QUALIFICATIONS:

- Minimum 1 year of cumulative industrial work experience in software development (preferably in health technology), computational science (biology, chemistry, etc), data science, and building AI/ML models with the latest tool kits (e.g., CNN, PyTorch, TensorFlow, Random forest, BERT-architecture models, other relevant LLMs, NLP).
- Currently enrolled or recent graduate from Master’s program at University, specialized in computer science/Math, software development/engineering, health informatics or similar.
- Past experience with software development for web applications – full-stack development is preferred. Has utilized several of these programming skills: Python, Java, C, MySQL, R, Django, HTML, PHP, JavaScript, CSS/HTML, React.
- Some experience with UX/UI front-end development and UI design using common programming tools such as: Figma, React, MSQl, Javascript, CSS/HTML, PHP, etc. Please provide link to your Github.
- Excellent skills in project planning and coordination, visually organizing workflow information, good critical analysis skills, and confidence in your communication.
- You take accountability for the quality of your development work, and you demonstrate ethical, responsible and trustworthy personal behaviours.
- You care deeply about women’s health issues and have gained first-hand knowledge about femtech sector. You are comfortable handling datasets and clinical health information about women’s reproductive and endocrine hormone health diseases, pelvic health conditions, and similar.
- 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 OIG team members, by communicating frequently and sharing knowledge responsibly and respectfully with team members.
- A ‘step up leader’ personality trait who learns quickly, able to adapt to changing priorities; takes initiative when it is appropriate, with management consent.
- Fluent in English language, especially for written skills. Highly proficient in Microsoft Office 365 software (these are must-have strong competencies: Excel, Word, PowerPoint, Outlook).

### WHAT WE OFFER:

- Note: due to the funding of this internship with Canadian Government grants, this job is only open to Canadian citizens or Permanent Residents who are legally eligible to work in Canada.
- Full-time hours per week at respectable salary (\$28 – \$33/hr)
- Hybrid work within Ontario, in-person group work at business offices in Oakville and Hamilton. Must have ability to travel by car or public transit. Remote work only for out of province interns.
- We provide professional development opportunities (with stipend) to learn and attend regional 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 [hello@optimalinnovationgroup.com](mailto:hello@optimalinnovationgroup.com). 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.