

The mission of the **Center for Integrated Cognition** (CIC; integratedcognition.ai) at the IQM Research Institute (IQMRI) is to be a world leader in organizing, supporting, and pursuing basic research on machines that think and learn the way people think and learn and that easily and naturally interact and work with people.

The CIC is currently looking for a **software engineer** to join the CIC team in support of our mission and projects. Current projects include: how to exploit language models for agent task learning; how to ensure that autonomous agents act safely and ethically, and how an autonomous agent can manage itself and its interactions with other agents to achieve individual and collective goals. General software development activities could include: making it easy to integrate and to use AI agents in new environments (especially simulations and games); creating custom simulation environments; creating tools to support AI agent development and data analysis; refining and extending our primary AI architecture (Soar), and designing and implementing tools to support research workflows.

Required Skills and Experience

- Bachelor's or master's degree in computer science, computer engineering, or a highly relevant field.
- Demonstrated proficiency in at least 2 of the following languages: C/C++, python, Java.
- Expertise in version control and configuration management including github.
- Ubuntu/Linux development and system management; familiarity with Windows or MacOS development environments.
- Experience in AI, simulation, and data bases.
- Demonstrated ability to work independently and with a team, especially with remote teams drawn from diverse areas of research expertise and levels of experience.

Preferred Skills and Experience

- 3 or more years of experience as a professional software engineer.
- Prior experience developing simulations (including game engines or game-engine applications and robot simulators).
- Prior experience developing AI applications or tools.
- Ability to think systematically, break down complex problems, and design and implement solutions efficiently
- Familiarity/working knowledge of the following languages and technologies: Unity, Unreal, ROS; DBMS (including SQLite), JSON and XML, OWL/RDF, python (Pandas, NumPy); HuggingFace; Soar, Tcl/Tk
- Prior experience developing user-focused tools
- Interest in AI, cognitive science and human reasoning

US Citizenship and a physical work location in the US is required. Potential candidates having required skills and experience should send cover letter and resume to recruiting@iqmri.org.

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