

Research Software Engineering II

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Company: Microsoft

Location: Colombia

Category: computer-and-mathematical

Overview

Microsoft Research & Incubations conducts world-class research and is developing the next generation of technology that will change the lives of billions of people, enabling every person and organization on the planet to achieve more. The Special Projects team within Microsoft Research & Incubations is searching for a full-stack software engineer who is eager to tackle unique challenges around knowledge extraction, representation, and LLMs. In this role, you'll work at the intersection of machine learning and engineering to bring our research to bear on unique problem domains and impactful partnerships.

We are looking for a versatile software engineer with a passion for unlocking the hidden potential in data. In this role you will work closely with researchers, data scientists, and other engineers to build full-stack systems that showcase problem solutions. Areas of development could include:

Pipeline and service development in Python

Frontend development using frameworks such as Streamlit or Shiny, alongside JavaScript/TypeScript web applications written in React

Data visualization with Vega and D3

Resource deployment on Azure

Microsoft Research offers an exhilarating and supportive environment for cutting-edge, multidisciplinary research, both theoretical and applied, with access to an extraordinary

diversity of big and small data sources, an open publications policy, and close links to top academic institutions. We seek applicants with the passion and ability to craft and pursue engineering solutions supporting a variety of research efforts.

Successful candidates will be self-starters and work well with underspecified requirements, have strong development skills in at least one major programming language, and a demonstrated capability to work across a variety of problem domains. This is an exceptional opportunity to work with a diverse team of researchers, focusing on delivering the next generation of research advances and scientific understanding to Microsoft's customers. Microsoft's mission is to empower every person and every organization on the planet to achieve more, and we're dedicated to this mission across every aspect of our company. Our culture is centered on embracing a growth mindset and encouraging teams and leaders to bring their best each day. Join us and help shape the future of the world.

Qualifications

Required Qualifications

Bachelor's Degree in Computer Science or related technical field AND 2+ years technical engineering experience with coding in languages including, but not limited to, C, C++, C#, Java, JavaScript, or Python

OR equivalent experience.

Experience with one or more of: Python, JavaScript, TypeScript, C#, Java, Rust

Experience with cloud platforms such as Azure or AWS

Experience with full-stack development

Fluent in written and spoken English

Preferred Qualifications

- Bachelor's Degree in Computer Science or related technical field AND 4+ years technical engineering experience with coding in languages including, but not limited to, C, C++, C#, Java, JavaScript, or Python

- o OR Master's Degree in Computer Science or related technical field AND 2+ years technical engineering experience with coding in languages including, but not limited to, C, C++, C#, Java, JavaScript, or Python

OR equivalent experience.

Adaptable, motivated, and highly collaborative team player

Self-starting and productive in a fully remote, globally distributed team

Experience in a research environment

Experience with high-scale data processing platforms such as Spark

Effective communication skills

#Research

#RaR

Responsibilities

Design, develop, and implement software applications and components that incorporate and showcase our research

Collaborate to develop and test out new ideas within the research group and with product or other partners

Contribute to the team's codebases (internal and open-source) with quality, well-thought out code

Prepare technical papers and presentations

Benefits/perks listed below may vary depending on the nature of your employment with Microsoft and the country where you work. Industry leading healthcare Educational resources Discounts on products and services Savings and investments Maternity and paternity leave Generous time away Giving programs Opportunities to network and connect

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