Senior Software Engineer, Language Biomarker Lab - Emory College of Arts and Sciences

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Type: Full-Time
Posted: 2 days ago
Category: Software Engineer/Programmer

Job Number: 160430

Department: ECAS: Psychology

Remote Work Classification

Primarily On Campus

Health and Safety Information

Not Applicable
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Emory University is a leading research university that fosters excellence and attracts world-class talent to innovate today and prepare leaders for the future. We welcome candidates who can contribute to the excellence of our academic community.

Description

KEY RESPONSIBILITIES:

- Identifies, designs, develops, implements, and revises software applications to meet business needs. Supports software applications and associated operating systems.
- Programs, analyzes and writes specifications. Devises solutions to system problems. Develops and tests applications; makes revisions to improve functionality.

- Develops and analyzes the effectiveness of new applications and test procedures. Writes and edits reports to provide recommendations, conclusions and other data. Performs related responsibilities as required.

MINIMUM QUALIFICATIONS:

- A bachelor's degree in computer science, math, engineering or a related field and three years of related experience in programming and software systems or an equivalent combination of education, training and experience.
- Knowledge of software development in a research institution context preferred.

ADDITIONAL JOB DETAILS:

The Language Biomarker Lab focuses on using AI and NLP to predict and better understand conditions such as Psychosis, Depression, and Alzheimer's Disease.

- As a Senior Software Engineer you will play a key role in developing and maintaining bioinformatic
  pipelines for a 42-site international project investigating language, facial, and acoustic indicators of
  psychosis.
- Data Engineering- Design, develop, and maintain high-performance data processing pipelines for large datasets.
- Implement robust quality control (QC) measures and data provenance tracking.
- Develop and maintain databases and APIs for efficient data management and sharing.
- Support data extraction, transformation, and loading (ETL) processes.
- Containerize and deploy software and workflows on high-performance computing platforms (e.g., clusters, cloud).
- Natural Language Processing- Develop and maintain NLP tools for language analyses of large samples of language.
- Collaborate with neuroscientists to analyze convergences between language analyses and neuroimaging data.
- Design and implement user-friendly interfaces for data exploration and analysis.
- Support web and application server configuration and deployment.
- Maintain and optimize the lab's computing infrastructure.
- Support data engineering efforts, including database and API design, data extraction/transformation/load, and data aggregation/integration.

PREFERRED QUALIFICATIONS:

- Strong programming skills in Python and Bash.
- Excellent Linux/Unix system administration skills.
- Proficiency with version control systems (e.g., Git).

- Strong communication and interpersonal skills.
- Experience with containerization technologies (e.g., Docker, Kubernetes).
- Experience with JavaScript libraries for data visualization (e.g., d3.js).
- Experience with web frameworks for building web applications (e.g., React, Angular).
- Basic knowledge of linguistics or neuroscience and neuroanatomy.

NOTE: Position tasks are generally required to be performed in-person at an Emory University location. Remote work from home day options may be granted at department discretion. Emory reserves the right to change remote work status with notice to employee.

Additional Details

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AA/EOE

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