



**Title:** Speech Application Development Engineer

## **About the Company**

LogicTree is a fast-paced and aggressive growth organization. We are a dynamic company that uses leading-edge technology to develop business-to-business, business-to-government, and business and government to consumer and citizen Information Delivery Solutions through speech, web, and multi-modal interfaces.

We are seeking a Speech Application Development Engineer to write and modify speech recognition grammars as well as create and modify tools for the writing and tuning of speech recognition and TTS (text to speech).

### ***Scope of Responsibilities/Expectations:***

The Speech Application Development Engineer is responsible for the speech recognition and TTS quality of every voice user interface that LogicTree deploys. The Speech Application Development Engineer will improve our existing tuning and metrics tools as well as design and develop a suite of new tools that will play an integral role in advancing our products and services. Additionally, they will be responsible for the hands on writing and tuning of new and existing speech recognition grammars and tuning TTS pronunciations.

### ***Primary Responsibilities:***

- Create speech recognition grammars and statistical models
- Design and develop tools for the UX (user experience) team to create, analyze, tune and test speech recognition grammars, TTS pronunciations and IVR applications
- Develop and apply best practices for speech recognition grammar/model development, including the use and development of reusable grammar and application components
- Work closely with UX designers and software developers to define and implement data collection requirements, processes and tools
- Optimize/tune speech recognition performance in new and existing applications through data collection, analysis, and experimentation
- Develop test concepts, test designs, and test plans in both pre and post-production environments for all aspects of the user experience
- Perform ongoing enhancements to the suite of tools LogicTree utilizes for creating, tuning and testing speech recognition grammars and IVR applications

### ***Qualifications:***

- BS/MS in Linguistics, CS, or Human Computer Interaction
- 3 years experience with speech recognition in industry or academic environments
- An advanced understanding of various speech recognition technologies (ASR, TTS, NLP)
- In depth understanding of Voice related standards, especially VoiceXML
- Advance and demonstratable skills in grammar development using GSL, GRXML, SRGS, SSML, NLP in both XML and ABNF forms
- Technical and development skills in one or more: .Net/Java technologies, web based development, scripting languages (Java, Perl) etc
- Highly competent in at least one phonetic transcription system (IPA, SAMPA, etc.)

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- Experience with groovy/grails/griffon development is a plus
- Strong commitment to code documentation, source control, and software testing procedures
- Ability to manage tasks and deliverables for simultaneous projects
- Ability to perform well on open-ended tasks with little to no direction, changing requirements and dynamic deadlines
- Excellent written and verbal communication skills
- Ability to work well both independently and within a team