Elliott Indiran

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Computational Linguist

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Work Experience

Computational Linguist at Promptu Systems   Menlo Park, California
Promptu Systems Corporation   October 2015 - present

- Worked on speech recognition projects in English, Italian, German, and Mandarin; both as a software engineer, writing components of the recognizer system, and as a linguist, handling language modeling and writing lexicons and grammars. This included crafting language model training datasets for automotive, cable, and travel products.

- Wrote the component of the recognizer system responsible for handling lexicon lookups during entity registration, generating pronunciations wherever possible to avoid needing to perform G2P.

- Led a project to construct a build system for language models, introducing new types of testing and automating work that was previously done by hand. This project used Jenkins to automatically build and test language model training datasets and language models, substantially reducing the frequency of bugs and regressions in the recognizer related to the LM and keeping over a dozen projects up-to-date while not under active development.

- Rewrote the piece of software which was the bottleneck in language model construction, reducing LM build times by as much as 20x for some projects.

Intern with the Linguistic Society of America Summer Institute   Chicago, Illinois
Linguistic Society of America (LSA)   June 2015 - August 2015

- Wrote the software responsible for managing grades and credit assignment at the institute, which was used to process class data for hundreds of participants across nearly 100 classes. Aided the directors of the institute in all technical matters.

Education

University of Chicago   Chicago, Illinois
Bachelor of the Arts in Linguistics with General Honors   2011 - 2015

- 3.44 Cumulative GPA; 3.67 Fourth-Year GPA

- Relevant coursework: Introduction to Programming for Linguistics, the Computer Science with Applications sequence, Statistical Methods and Applications, Mathematical Modelling for Linguistics, Computer Sceince with Applications sequence, and Computational Linguistics.

- Strong linguistics background in syntax, phonology, phonetics, and morphology.

Linguistic Society of America   Chicago, Illinois
Summer Institute at the University of Chicago   2015

- Relevant coursework: Exploiting Web Data for Linguistic Research, Unsupervised Learning of Linguistic Structure, Advanced Probabilistic Modeling in R, Speech Technologies, Computational Psycholinguistics, Computational Lexical Semantics.

Technical Skills

- Have used Java, Python, Perl, and C professionally in production systems. I have built and maintained a large continuous delivery pipeline using Jenkins, scripting with Groovy. Familiar with *nix utilities for system administration tasks, primarily on Linux.

- Python for scripting, data scraping and manipulation, and backend web-development (using Django), with PostgreSQL and MongoDB.