

JESSE STUART

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SUMMARY

Software engineer experienced in natural language processing, machine learning, and full-stack web development. I'm all about using technology to find meaningful patterns in messy data and solving difficult engineering & business problems.

EXPERIENCE

Software Consultant, Patent Properties (March 2014 - Present)

- Implemented a custom patent relevancy engine for patent claims using Latent Dirichlet Allocation.
- Implementing a custom text segmentation algorithm to extract features from a product description.
- Full-stack developer for the web application product built in Grails.

Technical Project Manager, American National Corpus (Summer 2013 - March 2014)

- Responsible for managing operations of the ANC development team, including designing and engineering new features, processing bug reports for web services and implementing fixes.
- Back-end developer for the NSF-funded [Language Application Grid](#) project, responsible for wrapping NLP products as web services and training junior developers.

Software Engineer, American National Corpus (Fall 2011 - Summer 2013)

- Architected and implemented a [framework](#) in Java that parses a corpus of documents to compile a database of linguistic features, and analyze linguistic variation between genres using machine learning algorithms. Work culminated in the publication of a [research paper](#) for the 2014 International Conference on Computational Linguistics.
- Full-stack developer for the [web app](#) product built in Grails allowing researchers to convert between linguistic annotation formats, including XML, NLTK, CoNLL, and Apache UIMA.

iOS Developer, Miscellany News (Summer 2012 - Fall 2012)

Developed an [iOS app](#) for the Vassar College newspaper, including an article loader in Objective-C that parsed the paper's RSS feed and scraped article HTML to build a database of article text.

Junior Developer, Undergraduate Research Symposium (Summer 2010 - Fall 2010)

Developed [musical artificial intelligence](#) software in Java based on [mathematical models](#) of musical composition.

SKILLS & EXPERTISE

- 4+ years of industry experience in object-oriented development in a variety of languages, including Java, Groovy, Python, C++, and Objective-C.
- Natural language processing (NLP), including Stanford CoreNLP, NLTK and GATE.
- Machine learning algorithms and frameworks, including Apache Mahout
- Front-end development (HTML, CSS, JavaScript/jQuery, Bootstrap/Less, Angular)
- Back-end development in Java, Groovy/Grails and other Spring technologies.
- Version control in Git and SVN; issue & project tracking in JIRA.

EDUCATION

Vassar College, Poughkeepsie NY
Bachelor of Arts, May 2013

Major: Neuroscience & Behavior
Minors: Computer Science, French