

STEPHEN MOSS

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QUALIFICATIONS SUMMARY

Linguistics-trained software developer with expertise in text manipulation, text parsing, vector matching, and ontology-driven NLP. Skilled in creating custom parsers, mapping extracted entities to structured ontologies, and delivering explainable, high-accuracy results. Holds a BA in Linguistics and an MS in software Development, combining deep linguistic knowledge with advanced programming capability.

CORE SKILLS & COMPETENCIES

Natural Language Processing & Linguistics

Text parsing & manipulation (rule-based, regex, tokenization)
Vector matching & semantic similarity scoring
Ontology design & mapping (ESCO, O*NET)
Entity recognition (NER with spaCy) • Gazetteers & alias normalization
Linguistic analysis

Programming & Development

Python (spaCy, sentence-transformers, Pandas, BeautifulSoup, FastAPI, Django)
JavaScript (Vue.js, Node.js) • HTML, CSS, JSON
Version control (Git/GitHub)

Databases & Data Management

SQL (MySQL, SQLite, SQL Server) • NoSQL (MongoDB, Mongoose)
ETL pipelines • Metadata storage & retrieval

Web Development & UI/UX

Responsive design • SPA development (Vue.js)
REST API integration • Bootstrap & Handlebars templating

Communication & Languages

English (Native) • American Sign Language (Fluent) • Spanish (Intermediate)
Cross-cultural communication • Accessibility advocacy

EDUCATION

MS, Software Development — Boston University, Jan 2024 (GPA: 3.63)
BA, Linguistics (Honors) — University of Maryland, May 2015 (GPA: 3.71)
BA, Psychology — University of Maryland, May 2015 (GPA: 3.70)
AAS, Interpreter Preparation — CCBC, Dec 2010 (GPA: 3.25)

SELECTED PROJECTS

JR Match (Job description to Resume matcher)— Python, FastAPI, spaCy, sentence-transformers, FAISS, SQLite/MySQL, ESCO/O*NET

- Developed custom text parsers for resumes/JDs to extract skills, job titles, employers, and dates.
- Normalized extracted skills to ontology IDs and implemented vector matching with semantic similarity.
- Produced transparent rankings with matched skills, evidence sentences, and gap analysis.

City Rater — Python, MongoDB, BeautifulSoup, APIs

- Parsed unstructured municipal data via web scraping and APIs into structured, comparable metrics.
- Applied ontology-like category mapping for standardized scoring.
- Created a dynamic weighting and filtering engine for custom rankings.

Mossletters — Node.js, MongoDB, Bootstrap, Handlebars

- Built contact management application with **structured data parsing** for import/export.
- Developed CRUD features with responsive UI and secure authentication.
- Designed templating system for rapid content generation.

PROFESSIONAL EXPERIENCE

Freelance NLP & Data Annotation Specialist

DataAnnotation.tech, Alignerr (Remote) | Oct 2023 – Present

- Designed text parsing and annotation patterns to improve extraction precision.
- Validated vector similarity results for accuracy and contextual relevance.
- Normalized extracted entities to standardized taxonomies and ontologies.

Enrollment Management Assistant

Pearson Virtual Schools (Remote) | Jun 2017 – Feb 2024

- Managed compliance documentation and PII security for state audits.
- Provided SME-level training on internal software tools and workflows.

English/ASL Interpreter

Hearing and Speech Agency, Baltimore, MD | Sep 2009 – Jun 2017

- Facilitated real-time translation between ASL and English in varied professional contexts.