

# CHRISTOPHER KUZMA

## NLP SOFTWARE ENGINEER

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### INFO

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United States of America

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### EDUCATION

M.A. 2015  
Indiana University  
*Computational Linguistics*

B.A. 2012  
University of Oregon  
*German Studies*

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### SKILLS

Python - JavaScript  
Java - Scala - SQL  
PySpark - Node.js  
NLP - NLTK - spaCy  
Flask - API Development  
German - Morse Code  
3D Modeling

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### PROJECTS

Night Vision Monocular  
3D Printed Carriage Clock  
Dual-Band Dipole Antenna  
3D Printed Solar Lantern  
Autonomous LoRa Drone  
6'x4' Wood LED Display  
Air Traffic Control for Alexa  
Open-Source WiFi Relay  
IOT HVAC Controller  
Sonority Dist. Calculator

### EXPERIENCE

#### **Kinesso:** *Senior NLP Data Engineer*

Aug 2021 - Jun 2023 || Remote

Validated and vetted German data sources from a micro- and macro-perspective to define ingestion patterns for source ingestion ETL pipelines. Wrote automated analytics code to infer graph quality as a byproduct of changes to data parsing and search algorithms. Investigated and identified root causes of person and household consolidation issues and tested potential fixes prior to implementation. Created and deployed NLP analytics tools. (Technologies: AWS, Python, SQL, PySpark, spaCy)

#### **State Farm Insurance:** *Software Engineer*

Nov 2020 - Aug 2021 || Phoenix, AZ

Applied relevant cloud application control checks as part of State Farm's Governance, Risk & Compliance mandates. Mapped security compliance data streams to a Automated Risk Assessment Management dashboard. Wrote Sentinel policies-as-code to prevent possible security risks. (Technologies: AWS, Terraform, Python)

#### **Indeed.com:** *QA Team Lead*

Mar 2019 - Mar 2020 || Seattle, WA

Led QA team efforts for high-value product and feature launches including CCPA and LGPD compliance rollouts. Designed, promoted, and helped execute new and existing QA procedures within the Indeed Communications group, including writing end-to-end Sentinel UI tests to prevent product feature regressions. (Technologies: Python, Java, Selenium, Jenkins, Datadog)

#### **Amazon Lab126:** *Alexa Language Engineer*

Aug 2017 - Mar 2019 || Seattle, WA

Served as SME for the launch of Alexa services in German-speaking markets. Identified patterns for, wrote, compiled, and optimized finite-state transducers for implementation into Alexa's language understanding systems to support new Alexa features. Drafted and promoted text corpora annotation specification guidelines. Created German-language grammar parsing logic patterns. Vetted, scraped, cleaned, and added new data sources into the knowledge graphs (Evi, Graphiq) utilized by Alexa. (Technologies: Python, Java, BeautifulSoup, AWS)

#### **IBM Watson Group:** *NLP Software Engineer*

May 2015 - Aug 2017 || New York, NY

Wrote backend code for advanced NLP features (anaphora resolution, context switching, entity resolution, word disambiguation) to be implemented into chat bots deployed in customer support roles and online advertisements. Developed and deployed search algorithms for Watson News. Optimized intent classifier training data. Implemented multilingual capabilities into the Watson Virtual Agent platform. (Technologies: Python, JavaScript, Flask, Node.js, Express, NLTK, spaCy, IBM Cloud)

#### **IBM Watson Group:** *NLP Software Engineering Intern*

May 2014 - Aug 2014 || Austin, TX

Created from scratch a statistical machine learning platform backend that was paired with an educational application frontend to automatically generate personalized learning strategies tailored to students' unique learning styles. Collected market research for shaping future MVPs, generating reports for future algorithm development. (Technologies: Java, Python, NLTK, Unity, IBM Cloud)