

CHRISTOPHER KUZMA

NLP SOFTWARE ENGINEER

INFO

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United States of America

EDUCATION

M.A. 2015
Indiana University
Computational Linguistics

B.A. 2012
University of Oregon
German Studies

CERTIFICATIONS & SKILLS

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

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

NOTABLE EXPERIENCES

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)