# Christopher Kuzma

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## Education

**Indiana University Bloomington** – 2015, M.A. Computational Linguistics
**University of Oregon** – 2012, B.A. German Studies

## Experience

**Kinesso: Senior NLP Data Engineer** (Aug 2021 - Jun 2023 || Remote)
Vetted German data sources and helped define patterns for large-scale data ingestions. Performed data analytics to infer graph integrity as a byproduct of code changes over time. Generated reports on person over-consolidations and household consolidation opportunities. *(Technologies: AWS, Python, PySpark, Data Analytics)*

**State Farm Insurance: Software Engineer** (Nov 2020 - Present || Phoenix, AZ)
Implemented cloud application control checks as part of State Farm's Governance, Risk & Compliance team. Mapped security compliance data streams to the Automated Risk Assessment Management dashboard. Wrote Sentinel policies to help other teams avoid security incidents. *(Technologies: AWS, Terraform, Python)*

**Axon: Software Engineer** (Apr 2020 - Jun 2020 || Seattle, WA)
Wrote code implementing new features and bug fixes on Axon's digital evidence management platform. Authored documentation for internal code repositories and company processes. Advocated for and implemented accessibility-centric product changes. *(Technologies: AWS, Azure, Scala, Finagle, React)*

**Indeed: QA Team Lead** (Mar 2019 - Mar 2020 || Seattle, WA)
Organized and 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. Wrote end-to-end tests that mimic user interactions on Indeed's account management portal to prevent product feature regressions. *(Technologies: Java, Selenium, Datadog)*

**Amazon Lab126: Alexa Language Engineer** (Aug 2017 - Mar 2019 || Seattle, WA)
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 specifications. Created German-language grammar parsing logic which enabled the launch of Alexa in German-speaking countries. Vetted, scraped, cleaned, and added new information sources into the knowledge graphs (Evi, Graphiq) utilized by Alexa. *(Technologies: AWS, Java, Python)*

**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. Created an information search pipeline for Watson News. Optimized intent classifier training data. Implemented multilingual capabilities into the Watson Virtual Agent platform. *(Technologies: IBM Cloud, Python, Java, JavaScript, Node.js, Flask, NLTK, spaCy)*

**IBM Watson Group: NLP Software Engineering Intern** (May 2014 - Aug 2014 || Austin, TX)
Created a statistical machine learning platform backend that was paired with an educational application which generated personalized learning strategies for each individual student's own learning style. Participated in team outings to collect market research for shaping future MVPs. *(Technologies: IBM Bluemix, Java, Python, NLTK, Unity, Market Research)*

**German International School of Portland: Substitute Teacher** (Feb 2013 - Aug 2013 || Beaverton, OR)
Created individualized lesson plans for reinforcing German language concepts. Led multi-age classroom activities ranging from language games to outdoor recreation, all performed in German. Assisted with classroom administrative work. *(Technologies: Linguistics, German)*

**ClipFlip GmbH: Business Development Manager** (Jul 2012 - Dec 2012 || Hamburg, Germany)
Coordinated marketing campaigns and customer communication strategies for English, German, French, and Spanish markets. Organized and oversaw mobile app bug bash sessions. Drafted marketing templates in HTML/CSS. Supplied copy and editing expertise to sister companies (Pictorama GmbH, Independent Publishing GmbH). *(Technologies: WordPress, HTML/CSS, Mailchimp, Google G-Suite)*

**University of Oregon: IT Assistant** (Jan 2009 - Jun 2012 || Eugene, OR)
Served as IT support staff at the Jacqua Academic Center for Student Athletes. Issued and refurbished school-owned IT assets. Provided Photoshop instruction. Re-built broken electronic hardware using the center's collection of damaged assets. *(Technologies: Unix Filesystem Tools, Adobe Photoshop, Electronics Repair)*

Skills

**Technical Abilities:**
Python, JavaScript, Java, Arduino (Embedded C), Chat Bot Design, Machine Learning Classifiers, Data Analytics, Agile Methodologies, Test-Driven Development

**Linguistics:**
Computational Linguistics and Natural Language Processing (NLP), German, Morse Code

**Personal Interests:**
3D Modeling, Rapid Prototyping, Aviation, Autonomous Vehicles, Woodworking, Amateur Radio

Projects

Dual-Band Dipole Antenna with 3D-Printed Element Holder *(Radio Theory, FreeCAD, 3D Printing)*
3D-Printed Solar Lantern *(FreeCAD, 3D Printing)*
Off-Grid Long-Range Communications System *(Aerial Drone, Raspberry Pi, S-Pixie QRP Radio, Python)*
6' x 4' Programmable LED Display Board *(Woodworking, NodeMCU, C++)*
Air Traffic Control Alexa Skill *(Python, ADS-B API, Google Maps API, AWS Lambda)*
Twitter-controlled Power Switch *(Java, Arduino, Wit.ai API)*
Internet-Connected Apartment HVAC Controller *(ESP8266, BeagleBone, Python, IBM Bluemix)*
Sonority Distance Calculator *(Python)*