

# ALVIN CHEN

## MS Computational Linguistics

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### EDUCATION

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<b>University of Colorado, Boulder</b> Master of Science in Computational Linguistics	<b>Planned Graduation 2025</b> Boulder, CO
<b>Johns Hopkins University</b> Bachelor of Arts in Economics and in International Studies	<b>Graduated 2019</b> Baltimore, MD

### EXPERIENCE

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<b>BLAST Lab @ CU Boulder</b> Researcher	<b>2023 - Present</b> Boulder, CO
<ul style="list-style-type: none"><li>▶ Designed a novel qualitative research system with automated label reassignment during collaborator mediation, not possible in existing systems and frameworks</li><li>▶ Demonstrated a comprehensive evaluation framework for qualitative research outcomes by highlighting differences in collaboration settings to inform tool design (see <a href="#">preprint</a>)</li><li>▶ Developed a novel model architecture for generative classification without prompt engineering, learning symbolic tokens that improve model performance for several downstream tasks</li></ul>	
<b>CLEAR Lab @ CU Boulder</b> Research Assistant	<b>2023 - Present</b> Boulder, CO
<ul style="list-style-type: none"><li>▶ Developed scripts for NER modeling and automated conversion of AMR knowledge graphs, reducing need for human intervention by 92%</li><li>▶ Supervised remapping of Wikidata knowledge graphs using semantic frameworks</li></ul>	
<b>Johnson &amp; Johnson</b> Data Intelligence Associate Manager	<b>2020-2022</b> Shanghai, China
<ul style="list-style-type: none"><li>▶ Lead project to map and standardize all Offline and O2O channel sales data; worked closely with IT to automate data collection and dashboard generation processes</li><li>▶ Managed Listerine &amp; Aveeno ecommerce holiday campaigns including ad buy, demographics selection, and graphics A/B testing, increasing campaign revenue 11% YoY</li><li>▶ Supervised ecommerce data vendors &amp; ad agencies; developed quantitative benchmarks to negotiate ROI and compensation</li></ul>	

### PROJECTS & PUBLICATIONS

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<b>Interactive Systems</b>   <a href="#">GitHub</a> : blast-cu/interactive-systems   <a href="#">Preprint</a> Developed comprehensive evaluation metrics for human-in-the-loop qualitative research tools and generated design recommendations for future tools
<b>BrainTeaser QA</b>   <a href="#">GitHub</a> : alvin-pc-chen/semEval_brainteaser   <a href="#">Paper</a> Achieved #1 on Codalab leaderboard for SemEval 2024 Task 9 using iterative chain-of-thought prompting
<b>CNN From Scratch</b>   <a href="#">Showcase</a> : alvin-pc-chen/cnn-from-scratch Built Convolutional Neural Network using only NumPy to demonstrate core ML concepts, achieved comparable performance to equivalent TensorFlow model

### SKILLS

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**Programming Languages:** Python, C, SQL, JavaScript  
**Technical:** HuggingFace, PyTorch, Keras/TensorFlow, Django REST, React JS  
**Professional:** PPT, Excel, Tableau, cross-function communication  
**Languages:** English, Mandarin, French