

# LONG CHENG

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## EDUCATION

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### University of Washington

September 2023 - December 2025

Master's, Artificial Intelligence (Focused on NLP & CV)

GPA: 4

- Core Sequence: Introduction to Linguistic Phonetics, Introduction to Syntax for Computational Linguistics, Shallow Processing Techniques for Natural Language Processing, Deep Processing Techniques for Natural Language Processing, Advanced Statistical Methods in Natural Language Processing, Language Processing Systems & Applications
- Electives: Summarization, Compositionality and Generalization, Speech Technology for Endangered Languages, Deep Learning for Natural Language Processing, Deep Learning for Computer Vision

### Universitat Pompeu Fabra

January 2020 - January 2021

Master's, International Business

GPA: 4

### Beijing Foreign Studies University

September 2015 - June 2019

Bachelor's, Linguistics (Focused on Spanish Language)

GPA: 4

## PROFESSIONAL EXPERIENCE

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### AIdeaFlow Podcast

Remote

Founder

October 2024 - Present

- Spearheaded the development of AIdeaFlow Podcast, a groundbreaking platform that transforms text into engaging podcasts with AI-powered conversations.
- Implemented multiple AI models to offer users flexibility in content generation, ranging from standard quality to premium WorldSpeak model.
- Successfully expanded the platform to support over 31 languages, catering to a global audience.
- Introduced personalized voice options for enterprise users, enhancing the user experience and paving the way for voice cloning capabilities.
- Drives recurring revenue with a growing subscriber base through effective strategies in SEO, Google Ads, and influencer marketing.

### Microsoft

Shanghai, China

Machine Learning and Software Engineering Intern

May 2024 - August 2024

- Integrated the Copilot summarization function into Azure Data Factory (ADF) pipelines.
- Created demos showcasing e-commerce logistics utilizing ADF pipelines.
- Explored the capabilities of the GPT-4o model to transform hand-drawn graphs into ADF pipelines.
- Tested the Copilot generation function and error assistant functions within the ADF pipelines.

### Baidu

Beijing, China

Data Analyst

November 2022 - April 2023

- Completed data requirements of product managers and project operators on Baidu's e-commerce products, including writing SQL code to obtain data from underlying logs, establishing SQL templates for the demand side to query, configuring routine data reports, etc.
- Used Python, Excel and other tools to perform data analysis on the completion of promotional activities, usage of coupons, user portraits, etc., visualized the analysis results, and extracted conclusions.

### Ministry of Foreign Affairs of China

Beijing, China

Attache

August 2019 - April 2022

- Led partnerships and communications with international organizations, fostering strong global collaborations.
- Managed international relations with LATAM and African countries, demonstrating cross-cultural communication and teamwork skills.
- Facilitated high-level meetings by providing translation and interpretation, ensuring effective multilingual communication.
- Coordinated and organized international conferences, showcasing leadership and event management skills.

### Microsoft

Beijing, China

Natural Language Processing (NLP) Intern

April 2019 - June 2019

- Participated in Spanish data quality inspections and gave Spanish and pan-language linguistic support to the development team.
- Conducted independent qualitative research and text analysis.
- Assisted the NLP and computer vision teams with data categorization and tagging.

## RESEARCH & PROJECTS

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### Master's Thesis

Seattle, WA, USA

Author

March 2025 - Present

- Conducting master's thesis in computer vision under Professor Ranjay Krishna, former Ph.D. student of Professor Fei-Fei Li.
- Conducting research focused on building a benchmark for comparing different large language models (LLMs) and vision-language models (VLMs) in an innovative manner.
- Leading research that will be open-sourced, providing valuable resources for the computer vision (CV) and natural language processing (NLP) communities in the long run.

### TEII: Think, Explain, Interact and Iterate with Large Language Models to Solve Cross-lingual Emotion Detection (Publisher: ACL)

Seattle, WA, USA

First Author

March 2024 - June 2024

- Analyzed global trends, public opinion, and social phenomena using cross-lingual emotion detection.
- Achieved an F1-score of 0.6046 in the Explainability of Cross-lingual Emotion Detection (EXALT) shared task.
- Outperformed the baseline by 0.16 F1-score absolute, ranking second among competing systems.
- Conducted experiments with fine-tuning, zero-shot, and few-shot learning for LLM-based models, alongside BiLSTM and KNN for non-LLM techniques.
- Introduced two novel methods: Multi-Iteration Agentic Workflow and Multi-Binary-Classifer Agentic Workflow.
- Demonstrated strong multilingual emotion detection performance using LLM-based approaches.
- Improved accuracy by using ensemble models, surpassing individual model performance.
- [Link to project](#)

### Cloning Myself

Remote

August 2023 - August 2023

- Fine-tuned ChatGLM2-6B on years of WeChat records to create a personalized AI model.
- Developed a “self” reflecting my personality through tailored training.
- Explored potential marketing applications and broader use cases for personalized AI.
- [Link to project](#)

### Multi-document Summarization

Remote

January 2024 - March 2024

- Explored three extractive summarization approaches: LLR, SumBasic, and LexRank.
- Implemented ordering methods using Jaccard similarity, entity-grid, and chronological sequencing.
- Applied shallow NLP and LSTM for content realization.
- Achieved best performance with LexRank, evaluated via ROUGE, InfoLM, and human assessments.
- [Link to project](#)

### UCB CS61B Data Structures: Gitlet

Remote

September 2023 - September 2023

- Implemented core Gitlet features, including commits, branching, merging, and file tracking, mimicking Git’s functionality.
- Gained hands-on experience in version control by enabling periodic backups, restoring directories, and managing commit histories, demonstrating proficiency in version-control systems and software development best practices.
- [Link to project](#)

### Complete 2025 KFC Menu with Prices and Latest Updates

Remote

September 2024 - Present

- Provided accurate and up-to-date pricing information on KFC menu offerings.
- Ensured an informed dining experience with reliable menu details.
- [Link to project](#)

### UCB CS61A Structure and Interpretation of Computer Programs: Scheme Interpreter

Remote

October 2023 - November 2023

- Gained expertise in lexical scoping, recursion, and key Scheme/Lisp concepts.
- Implemented core Scheme interpreter features, including parsing and execution.

- Explored interpreter and compiler design, analyzing how implementation choices shape language behavior and addressing challenges in programming language development.
- [Link to project](#)

### **Nuxt Template with Stripe, Supabase, Google Auth, i18n, and Ko-fi Integration**

**Remote**

*September 2024 - September 2024*

- Developed a ready-to-use starter kit for building Nuxt.js applications with key third-party integrations.
- Streamlined project setup for subscription management, internationalization, authentication, and donation functionality.
- [Link to project](#)

### **Discover The Best AI Tools**

**Remote**

*January 2025 - Present*

- Managed SpotAI.tools, an open-source AI tools directory for text, images, video, and coding.
- Curated and updated listings while enabling developer submissions to enhance visibility and SEO benefits.
- [Link to project](#)

### **UCB CS61B Data Structures: BYoW (Build Your Own World)**

**Remote**

*December 2023 - January 2024*

- Designed and implemented an explorative world-generation engine, applying software engineering principles creatively.
- Navigated open-ended challenges through iterative experimentation and web research.
- Refined performance based on subjective evaluation criteria, mirroring real-world assessment processes in software development.
- [Link to project](#)

### **UCB CS61C Great Ideas in Computer Architecture: Conway's Game of Life**

**Remote**

*July 2024 - July 2024*

- Developed a multi-color Conway's Game of Life simulation with steganography in C.
- Implemented PPM file I/O, a steganography decoder, and simultaneous rule-based simulations, demonstrating expertise in image processing, memory management, and bitwise operations.
- [Link to project](#)

### **UCB CS61A Structure and Interpretation of Computer Programs: Ants vs. SomeBees**

**Remote**

*September 2023 - October 2023*

- Developed Ants vs SomeBees, a tower defense game requiring strategic ant placement to defend against bees.
- Demonstrated object-oriented programming by designing classes for game entities and mechanics, implementing turn-based gameplay, colony management, and AI-driven behaviors to enhance strategic depth.
- [Link to project](#)

### **Dream Interpretation**

**Remote**

*December 2024 - Present*

- Utilized advanced LLM techniques to assist individuals in interpreting their dreams and uncovering insights into their deeper sense of self.
- [Link to project](#)

### **Divine Talk**

**Remote**

*January 2025 - Present*

- Developed an AI platform to enhance Bible study and spiritual engagement.
- Innovated a system that enriches religious experiences and provides comfort to isolated individuals.
- [Link to project](#)

## **SKILLS**

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**Skills:** Java, HTML/CSS, Git, SEO, Python, Operations Research, Excel/Numbers/Sheets, Business Analytics, C/C++, Next.js, Nuxt.js, Adobe Photoshop, Adobe Lightroom, AWS, Bash, Business Strategy, Canva, Communications, CUDA, Data Analysis, Data Science, Discrete Math, Docker, Flask, Google Analytics, Google AdWords, iOS/Swift, JavaScript, Jupyter, Kubernetes, Linux/Unix, LLM, Machine Learning, Marketing, Microsoft Azure, MongoDB, MySQL, Natural Language Processing (NLP), Neural Networks, NLTK, Node.js, NumPy, OpenCV, Operating Systems, Pandas, PowerPoint/Keynote/Slides, PowerShell, Product Management, Public Speaking, R, React.js, React Native, Reinforcement Learning, Sales, Seaborn, Social Media, Software Testing, SpaCy, SQL, Tensorflow, UI/UX Design, TypeScript, Vercel, Video Editing, Vim, Vue.js, Web Development, Word/Pages/Docs, Yarn, Pytorch, Customer Service, end-to-end, statistics, cross-functional, problem-solving, Google Ads, online advertising, Search Ads