DALONG CHEN
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RESEARCH EXPERIENCE

(Detailed descriptions provided in application Research Experience section.)

Independent Research in Cognitive & Linguistic Hanzi Systems   San Jose, CA
Independent Researcher   *06/2025 – 11/2025*

Unsupervised Learning for CT-Scan Medical Imaging   San Jose, CA (Remote)
Independent Researcher   *05/2025 – Present*
With Jun Guo, Shandong Chronic Disease Hospital; Mingdai Yang, PhD Candidate, University of Illinois Chicago

Behavioral Economics Research   San Jose, CA (Remote)
Directed by Professor Tracy Xu, University of Denver   *09/2024 – Present*

Applied Predictive Modeling for Health Analytics   Beijing, China
Collaborative Research Project   *07/2020 – 10/2023*

Independent Economic Integration Study   Denver, CO
Directed by Professor Ronald Rizzuto, University of Denver   *03/2012 – 06/2012*

Assistant Portfolio Manager, Marsico Investment Fund   Denver, CO
Directed by Professor Maclyn Clouse, University of Denver   *06/2011 – 12/2011*

PUBLICATIONS

1. Journal Submission (Under Review)
Chen, Dalong. "*A Theoretical Study of Using Chinese Characters (Hanzi) to Represent the Writing Systems of Other Languages*."
Submitted to *Written Language & Literacy* as a single independent researcher, December 1, 2025.
Description: A theoretical and cognitive-linguistic investigation into whether Hanzi can serve as an abstract, cross-lingual logographic system for representing non-Sinitic languages, analyzing script universality, phonological mapping, and symbolic compression.

2. Book (Amazon KDP Publication)
Chen, Jianyue (pen name). *Yi Hai Nan Yang (异海南洋 / Once Upon a Time: South China Sea).*
Traditional Chinese Edition. Published November 29, 2025.
Amazon Kindle Direct Publishing (KDP). ASIN: **B0G4GMRXZ8**.
Description: A long-form historical fantasy novel set in the final years of the Southern Song dynasty, depicting the strategic, cultural, and existential dilemmas faced by Chinese communities as they considered migration to Southeast Asia under the advancing Mongol forces.

EDUCATION

Trine University — Master of Science   Angola, IN
Major: **Information Studies (MSIS)**   *10/2023 – present*
GPA: 4.0/4.0
Courses: Statistics, Microeconomics, Macroeconomics, Cloud Computing, Project Management, Advanced Database, Networks Management, Data Science & Big Data.

Highlights:

- Joined the program under Day 1 CPT authorization and gained extensive practical and theoretical knowledge in IT and analytics.

University of Chicago — Master of Science   Chicago, IL
Major: **Computer Science**   *09/2016 - 03/2020*
GPA: 3.63/4.0
Courses: Discrete Math, Algorithms, Computer Networks, Databases, Introduction to Computing Systems, Big Data, Web Design, Introduction to Blockchain.
Class projects:

- Computing System: Course project to build a computer from scratch to include CPU design, memory management, assembler, compiler, debugging, optimization, operating systems, etc.
- Big Data: A MapReduce and Hadoop project to analyze a large number of records.
- Databases: An application that has front and back ends of a library system and is driven by PHP.
- Blockchain: A decentralized blockchain that is coded by Java.

University of Denver, Daniels College of Business — Master of Science   Denver, CO
Major: **Finance**   *09/2010 - 06/2012*
GPA: 3.86/4.0
Courses: Database Design & Programming, Web Scripting with JavaScript, Financial Modeling, Individual Study Thesis, Security Analysis & Valuation, Portfolio Management, Risk Management.
Graduate Assistant   *11/2010 – 06/2012*

- Provided college-wide technology support, including operating system setup and upgrade, hard drive restores and backup, software installations, and equipment maintenance. Oriented new students by helping them with Internet and account settings and with security and credentials.
Lifetime Member of Beta Gamma Sigma Honors Society   *06/2012*

Shandong Jiaotong University — **Bachelor of Economics**   Jinan, China
Major: **Finance**   *09/2006 - 07/2010*
GPA: 3.62/4.0 (include exchange) GPA: 3.74/4.0 (not include exchange)
Courses: C Language Programming, Information Systems & Business Processes, MATLAB, Statistics, Linear Algebra, Calculus 1 & 2, Management IS, Information Technology, Accounting IS, Microeconomics, Macroeconomics, Probability Theory and Statistics, Financial Engineering.
Exchange Student   Boras, Sweden
University of Boras   *08/2009 – 06/2010*
Paper: *Auto finance research & development.*

HONORS, CERTIFICATES, PRIZES, & ACTIVITIES

- 2024 Stanford Coursera Game Theory Certificate.
- 2020 The University of Chicago Entrepreneurship for Science & Medicine Certificate.
- 2009 2nd Prize Ufida Cup ERP Enterprise Operation Simulation Competition, Shandong, China.
- 2008 1st Prize for 2008 Chinese National English Contest for College Students.
- 2007 3rd Prize Ufida Cup ERP Enterprise Operation Simulation Competition, Shandong China.
- 2004 Paper: *Leveraged historical astronomical phenomena records to analyze Shang dynasty's Muye Battle's exact date*. Prize: 2nd Prize in Innovation Competition of Shandong Province, China. Representing Qingdao No. 2 Middle School.

- Professional certificates: IBM Certified Designer - Cognos BI Reports; IBM Certified Administrator, Specialist, Developer - Cognos TM1; Anaplan Certified Developer.

PROFESSIONAL EXPERIENCE

Application Consulting Group   San Jose, CA
Senior Technical Consultant   *01/2024 – Present*
- Full-time consultant supporting Amazon and C Spire on data engineering, ETL pipelines, and enterprise analytics systems.
- At Amazon (full time), I with AWS (S3, EC2, Lambda, SNS, Athena), Python, Linux, and IBM Planning Analytics on large-scale financial and operational datasets.   *02/2024 – Present*
- For C Spire (part-time), I developed ETL workflows and analytics models using Python, Fusion, IBM Planning Analytics, and PA Workspace.   *01/2024 – 10/2024*
- Within Application Consulting Group, I contribute to AI research focused on integrating LLMs into enterprise planning platforms, including evaluating IBM's open-source Granite LLM and its on-premise and API-based deployments to enhance decision-support and analytics workflows.

Capsu Tech Inc.   Beijing, China
CEO & Principal Developer   *06/2020 – 10/2023*
- Developed a diabetes healthcare mobile app using Flutter, Dart, and MongoDB.
- Applied Markov chain modeling to predict prediabetes/diabetes and forecast glucose levels.
- Trained new employees, mentored developers, and instructed client users.
- Prepared and delivered presentations to investors, customers, and internal teams.

Prism IT Inc.   Chicago, IL
Senior Architect   *05/2019 – 02/2020*
- **Client:** Walgreens Boots Alliance (full time). Leveraged Java, Python, Planning Analytics, & relational databases to support Walgreens' analytics & architecture initiatives.   *05/2019 – 02/2020*

Transcendia Inc.   Chicago, IL
Operational Analytics Lead   *03/2017 – 04/2019*
- Utilized Java, Python, SQL, Docker, & IBM Planning Analytics for data analytics, ETL, & managing finance, accounting, & sales databases. Trained users on analytics tools and workflows.

DataClarity Corporation   Denver, CO
Senior Consultant   *08/2015 – 02/2017*
- Java, IBM Cognos BI, IBM Cognos TM1, Cloud Computing, ETL, & relational databases.
- **Clients:** BlueCross BlueShield of Tennessee: Database security model.   *12/2015 – 02/2017*
- ProAssurance Corporation: Front-end applications design.   *05/2016 – 02/2017*
- Silver Spring Networks: Development & configuration.   *08/2015 – 02/2016*

Perficient, Inc.   Denver, CO
Senior Technical Consultant   *09/2012 – 08/2015*
- **Clients:** AbbVie/Abbott (full time). Designed and developed financial databases. Led front- & back-end programming, database design, & development, while training client users, mentoring new developers, & presenting. 7- Eleven (Temp Support *07/2013*)   *10/2012 – 08/2015*

Cologix Holdings, Inc.   Denver, CO
Financial Analyst (Formerly Intern)   *09/2011 – 07/2012*
- Operating budgeting, forecasting, $10+MM capital budgeting, NetSuite, & Adaptive Insights.