

RUIZE JIN

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EDUCATION

DUKE UNIVERSITY <i>Master of Quantitative Management: Business Analytics, Risk Track</i> Data Science Coursework: Data Infrastructure, Data Science for Business, Decision Analytics& Modeling, Data Visualization	Durham, NC, USA May 2027
CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS (CUFE) <i>Bachelor of Science, Actuarial Science</i> GPA: 3.7/4.0; Munich Re Cup Actuarial Mathematics Competition, Global Top 100 Student Ambassador, IFOA; Vice President, CUFE News Agency; Deputy Editor, University Newspaper; Stand-Up Comedian	Beijing, China Jun 2026

EXPERIENCE

SCOR SE - Marketing Actuary Intern - Built a SQL ETL pipeline and analyzed claims and policy data in Python for 20 L&H clients, cutting analysis time by 50% and informing client segmentation and marketing strategy - Built Power BI dashboards for L&H portfolio reporting and experience analysis; automated quarterly data refreshes to streamline performance monitoring and recurring reporting - Deployed a Qwen-powered AI agent to collect insurers' solvency reports and extract and validate key data, cutting report-processing time by 70% and supporting market solvency analysis	Beijing, China Nov 2025 - Apr 2026
SIEMENS - Data Analytics Intern - Deployed Selenium crawlers and AWS pipelines to auto-collect macroeconomic data; optimized PySpark workflows, improving resource utilization by 30% and cutting processing time by 45% - Cleaned and migrated COPA data with Pandas and delivered CPD reports to business teams, supporting performance analysis and decision-making - Developed scripts to scrape, structure, and ingest million-scale business documents into a RAG knowledge base supporting Siemens' in-house LLM, enabling grounded, domain-specific responses	Beijing, China Jul 2025 - Nov 2025
PEKING UNIVERSITY INTERNATIONAL HOSPITAL - Medical Data Operation Intern - Collaborated with hospital reimbursement and finance teams to validate quarterly inpatient data and resolve discrepancies across 2,000+ records, reducing errors by 32% - Presented DRG/DIP reimbursement analyses to visiting faculty and the dean, clarifying stakeholder trade-offs and financial implications for hospitals, patients, and insurers	Beijing, China Jun 2024 - Jul 2024

SELECTED PROJECTS

FORECASTING NYC TAXI DEMANDS& CLASSIFYING TRAFFIC PATTERNS (PYTHON, AWS) Processed separate TLC datasets containing 3.5M January and 11.2M Jan-Mar Yellow Taxi records; engineered tabular and spatiotemporal features across 263 zones and trained MLP, attention-LSTM, CNN, and XGBoost models; achieved \$4.45 total-amount RMSE and 2.53-minute trip-duration RMSE, informing fare estimation, trip-time modeling, and demand planning. Productionized models on AWS, automated monthly data ingestion, inference, and monitoring.	Mar 2025 – Jul 2025
PREDICTING PURE PREMIUM BASED ON MUTI-LEARNING NEURAL-ADDITIVE MODELS (PYTHON, R) Built an interpretable PyTorch multi-task neural additive model (MTL-NAM) with shared feature subnetworks to jointly predict claim frequency& severity in freMTPL dataset. Benchmarked against GLM, GBM, and single-task NAM using six-fold cross-validation; achieved the lowest NLL, RMSE, and MAE, with severity MAE 4.4% below GBM	Sep 2025 – Apr 2026

TECHNICAL CAPABILITIES

Python (NumPy, pandas, scikit-learn, PyTorch, PySpark, Selenium), SQL, R, AWS, Power BI, Tableau, Advanced Excel; Machine Learning, Deep Learning, NLP, Time-Series Forecasting, Multi-Task Learning, ETL, Web Scraping, LLM Agents, A/B Testing
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ADDITIONAL INFORMATION

Professional foodie, amateur chef; Bird Lover; GenAI-powered GenZ; AWS Certificated AI Practitioner
