

# Grant Chen

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## EDUCATION

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**University of Chicago** Chicago, IL  
M.S. in Statistics (GPA: 3.64 / 4.00) Sep. 2022 - Dec. 2023  
Courses: Big Data, Applied Linear Stat Methods, Multivariate Statistical Analysis, Statistical Analysis in Clinical Trial  
**National Chengchi University** Taipei, Taiwan  
B.S. in Statistics and Minor in Management Information Systems (GPA: 3.84 / 4.00) Sep. 2017 - Jan. 2022  
Honor: Academic Excellence Award (top 5% of class in semester)  
Courses: Machine Learning, Computing for Business Analytics, Algorithms, Database Application, Regression Analysis

## SKILLS

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**Programming Languages:** Python, R, SQL, SAS  
**Tools:** AWS, Git, Hadoop, Spark, Linux, Flask, Elastic, Docker, Tableau, PowerBI, Excel, SPSS  
**Machine Learning Frameworks:** Pytorch, TensorFlow, Keras, Scikit-learn  
**Knowledge:** Casual Learning, A/B testing, Machine/Deep Learning, Natural Language Processing, MLOps, Business Intelligence

## PROFESSIONAL EXPERIENCE

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**Argonne National Laboratory** Chicago, IL  
Lead Data Scientist Sep. 2023 - Present

- Led team of five to develop AI-enhanced policy management system by Scrum methodology for optimizing operational management
- Led knowledge graph-based digital twin system for policy documents, leveraging Large Language Models to achieve 80% reduction in manual effort required for discovering and maintaining requirements
- Implemented Neo4j graph database for data management enhancement and visualization, facilitating discovery of concealed document relationships

**Industrial Technology Research Institute (ITRI)** Hsinchu, Taiwan  
Data Scientist June. 2023 - Sep. 2023

- Enhanced recommendation model by fine-tuning Large Language Models (LLMs) with HuggingFace for precise information extraction and accurate embeddings from product text descriptions
- Engineered end-to-end data pipeline by utilizing Spark for text preprocessing and Elasticsearch for unstructured data management, increasing 400% in data processing speed
- Deployed recommendation model on AWS EC2 using Flask and Docker, decreasing 67% response time and accommodating 100,000+ users during a high-traffic exhibition

**Research Center for Information Technology Innovation (CITI), Academia Sinica** Taipei, Taiwan  
Machine Learning Researcher, Computational Finance and Data Analytics Lab Oct. 2021 - May. 2022

- Enhanced E.SUN Bank's (Top 3 financial institutions in Taiwan) Mutual Fund Recommendation System by Neural Collaborative Filtering by integrating user metadata including Know Your Customer (KYC) data, purchase history, and fund feature analysis, boosting 65% in revenue
- Established Multi-Behavior Recommendation Model with novel embedding design and submitted to IJCAI conference
- Conducted in-depth analysis and delivered valuable insights from 30+ papers to non-technical stakeholders, focusing on potential applications in finance domain

**Fubon Financial Holding Co., Ltd.** Taipei, Taiwan  
Data Analyst Intern July. 2020 - Aug. 2020

- Coordinated with cross-functional teams in Product, Marketing, IT, and Sales to transform actionable insights from customer segment and churn prediction model into effective strategies, increasing 36% financial product sales
- Established and maintained Tableau dashboards for real-time monitoring of marketing campaigns and sales performance, reducing 76% daily report generation time
- Implemented a combination of Selenium crawler and Natural Language Processing to label 20,000 merchants, reducing 80% manual processing time

**Data Yoo Application Co., Ltd.** Taipei, Taiwan  
Data Science Intern Jan. 2020 - June. 2020

- Deployed price forecasting model in AWS SageMaker, establishing retraining pipeline for continuous improvement
- Conducted multiple end-to-end A/B tests to enhance the user interface and evaluate new features, achieved 25% increase in user engagement and 30% in conversion rate
- Designed and managed Tableau dashboards for agricultural wholesalers and retailers, providing instant visualization of crop price trends and trade volume fluctuations