

# DEVIN GU

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## LANGUAGES & SKILLS

**Languages:** Python 3.7, R, MySQL, Tableau, PowerPoint, C++, JavaScript, Mathematica, STATA, AMPL, ARENA, Teradata, Excel  
**Expertise:** Predictive Modeling, Clustering, Supply Chain Optimization, Network Analysis, Time Series Forecast, Machine Learning  
**Skills:** Project Management, Supply Chain Management, Leadership, Non-Technical Stakeholder Communication, Problem Solving

## EXPERIENCE

**CIGNA, St. Louis, MO**

**May 2018 - Present**

*Data Scientist - Forecast and Analytics Team Lead*

- Designing innovative automated forecast ensemble algorithm including statistical and machine learning models such as ARIMA, Neural Net, Prophet and ETS, improving accuracy from 84.3% to 94.8 %
- Leading organization-wide forecast function, strategizing and revamping the standard operating procedure by integrating quantitative and qualitative forecast, managing to save \$2M inefficient resource management cost
- Directing team to augment campaign return of investment by utilizing predictive modeling (Lasso and Ridge) to classify the most profitable customers with highest propensity, remarkably upheaving campaign performance by 15%
- Unriddling complex customer purchasing and call behavior by clustering and pattern mining 1.5M observations based on 77 features, offering deep-dive insight to help senior management reposition customer-centric service strategy
- Influencing key stakeholders and senior management to adopt data science way of thinking and acting, translating staggering data science concepts to business intuition, doubling initiation of data science projects in past 6 months

**ANHEUSER-BUSCH INBEV, St. Louis, MO**

**Aug 2017 - Jan 2018**

*Analytics Consultant*

- Optimized fleet network strategy in Python, designing a simulation model with ten real-time parameters (e.g. gas price) to ameliorate fleet size, lane selection and reverse logistics decision, resulting in 21% transportation cost reduction
- Conveyed data-driven recommendation to senior management via Tableau, triggering company's decision in procuring 800 electric vehicles, a \$720M deal, in 2018
- Built Tableau interactive network visualization, narrowing gap between technical information and non-technical audience

## PROJECTS

- Walmart Sales Forecast
- Ames Housing Price Prediction
- Movies Revenue Prediction
- Automatic Semantic Annotation
- Word Happiness Storytelling Visualization
- Recommendation System

## ACCOMPLISHMENTS

- Certified Project Management Professional (PMP)
- Certified Six Sigma Green Belt (ASQ CSSGB)
- Project of the Year - Boeing Center Symposium
- Co-Founder of APICS WashU Chapter
- Certified Supply Chain Professional (APICS CSCP)
- Certified Management Accountant Part I (CMA)
- Certified in Production and Inventory Management
- Founder of UIUC Computer Science Online Forum

## EDUCATION

**UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, CHAMPAIGN, IL**  
**Master of Computer Science**

**May 2020 - March 2021**

- **Current GPA:** 4.00

**WASHINGTON UNIVERSITY, OLIN BUSINESS SCHOOL, ST. LOUIS, MO**  
**Master of Science in Supply Chain Management**

**Aug 2017 - Dec 2018**

- **GPA:** 3.70 (45 credits earned; 36.5 credits required to graduate)

**BRANDEIS UNIVERSITY, WALTHAM, MA**  
**Bachelor of Science in Mathematics**

**Aug 2013 - May 2017**

- Double Major in Economics; Minor in Business