

Kevin W. Zhang

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Education

- University of Illinois at Urbana-Champaign** Urbana-Champaign, IL
Master of Computer Science in Data Science (GPA: 3.61/4.00) Jan 2020 - Dec 2021
- Coursework: Data Mining, Data Visualization, Statistical Learning, NLP, Deep Learning
- Purdue University** West Lafayette, IN
Bachelor of Science in Computer Science (GPA: 3.53/4.00) Aug 2015 - Dec 2018
- Minors in Mathematics and Economics
- Coursework: Machine Learning, AI, Information Systems, Regression Analysis, Algorithms

Work Experience

- Discover Financial Services** Riverwoods, IL
Senior Data Science Analyst Apr 2021 - Present
- Skilled network pricing analyst - analyst for the Discover Global Payments Network
- Key advisor of financial and technical information for Diners Club International Network Pricing
- Responsible for the preparation and compilation of Discover's 2021 card payments network data to the U.S. Federal Reserve for their annual Federal Reserve Payments Study
- Designed and implemented a trigger reporting system that automatically detects large changes in transaction rates, volume, and counts, lessening time spent on manual identification of anomalies
- Compiled a year end report summarizing the 2021 sales data of the Discover payments network that corporate executives used to assess Discover's overall industry performance for the 2021 fiscal year
- Performed a deep dive analysis on pandemic-related transactional data recorded in the EMEA region and presented the previously unknown findings to management
- Data Platform Engineer (Chicago, IL)* Jan 2019 - Apr 2021
- Setup infrastructure needed to incorporate AWS Comprehend into our internal services
- Architected framework and implemented a CI/CD process for deploying ephemeral AWS EMR clusters, greatly reducing the computational costs of our cloud cluster services
- Developed a workflow and a pipeline that quickly publishes customized AWS AMIs
- Incorporated comprehensive Python unit tests into several Jenkins deployment pipelines that test for correct function behavior, error handling, and code coverage
- The Aerospace Corporation** Chantilly, VA
Ground and Computer Technical Intern May 2018 - Aug 2018
- Created and trained a classification model using the TensorFlow Object Detection API that aimed to identify aerial entities within still images
- Prepared a data storage solution to log geographical data obtained from satellite imagery and wrote scripts that automatically compare and analyze these data elements
- Purdue University Admissions Office** West Lafayette, IN
Campus Ambassador and Tour Guide Oct 2016 - Dec 2018
- Guided prospective students through campus tours and orated official admissions presentations

Relevant Skills and Qualifications

Programming Languages: Python, SQL, Java, C/C++, Bash, R, MATLAB

Tools & Technologies: AWS, Pandas, NumPy, PyTorch, Jupyter, Snowflake, Tableau, Airflow, GitHub, Jira, Jenkins, Terraform, Hadoop, Spark, Docker, OpenShift

Other Skills: Mathematics, Documentation, Analytical, Presentation, Communication

Leadership and Teamwork

- Purdue University New Student Orientation**
Team Supervisor Nov 2016 - Aug 2017
- Trained and developed the Team Leaders that mentored 6,000+ incoming new students
- Collaborated with other Team Supervisors to help organize and run student orientation events