

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