

Jianan Dingqian

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Education

Teachers College, Columbia University, New York, NY	October 2023
<i>Master of Science in Learning Analytics</i>	GPA: 3.8
Northeastern University, Boston, MA	December 2020
<i>Bachelor of Science in Electrical and Electronic Engineering</i>	GPA: 3.6

Work Experience

Industrial Bank, Guangzhou, China Data Analyst Intern	March - May 2021
<ul style="list-style-type: none">Leveraged Python, SPSS, and Excel to process extensive customer data, including credit card transactions, spending habits, and lending recordsTransformed data into visualizations to enhance team understanding of customer patternsConducted market research, competitor analysis, and customer behavior analysis, proposing suggestions for improvement	
Vicor Corporation, Andover, MA Firmware Engineer Co-op	January - June 2019
<ul style="list-style-type: none">Developed embedded system firmware for a power product, implementing multi-threaded task scheduling and error recoveryCollaborated with hardware team to debug and optimize systems, improving reliability and securityCreated test suites in C and C# for comprehensive system testing and product validation	
Rongle Electronic Technology, Shanghai, China Assistant Engineer Intern	June - August 2018
<ul style="list-style-type: none">Assisted in designing, simulating, testing, and validating vehicle electronic control systemsManaged component selection, procurement, and testing, documenting results in technical reportsTroubleshooted automotive electronic systems using CAN bus communication protocols and tools	

Projects

EDM Analysis: Academic Performance and Family Background	September - December 2021
<ul style="list-style-type: none">Utilized EDM (Educational Data Mining) to analyze data on student performance, family background, and higher education aspirationsApplied logistic regression models and F-tests to assess the relationship between family background and students' desire for higher educationProposed actionable measures to improve educational outcomes for students from diverse backgrounds	
Emotion Recognition Training Device	September - December 2018
<ul style="list-style-type: none">Developed a Python-based game for children with autism to recognize real-time facial expressionsBuilt a device using Raspberry Pi to run the game and wirelessly connected a camera for real-time photo capture and transmissionUtilized TensorFlow as the algorithm execution environment and Microsoft Face API to analyze facial expressions in the returned photos	
VGA Display Controller	January - April 2018
<ul style="list-style-type: none">Designed an FPGA-based VGA display with high-resolution and high frame rate video outputImplemented custom graphical interfaces and image processing algorithms in Verilog assembly language	

Skills

Programming Languages: Python, R, C, C++, C#

Tools & Technologies: SPSS, Excel, MATLAB, Embedded Systems

Languages: English (Fluent), Mandarin (Native)