

# RUN CHEN

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Feel free to check my personal website: <https://bigruntheory.github.io/>

## SKILLS

- Python, PySpark, C
- (Machine Learning) System Design
- Language Models, Generative AI
- Statistics, Data Analysis, Data Structure and Algorithms
- Decision Science, Math Programming
- Cloud Service, Ads, Online Business

## CERTIFICATES

- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Data Fundamentals

## EXPERIENCE

### OCTOBER 2022 – PRESENT

#### **DATA & APPLIED SCIENTIST, MICROSOFT, REDMOND, WA**

I have primarily worked on delivering intelligent solutions to demand forecasting and capacity planning for Microsoft Azure. By leveraging my expertise in data science, machine learning, and artificial intelligence, I have helped the company reduce CAPEX and provide better cloud services globally.

- Delivered monthly publications of demand forecasts for Azure E&D.
- Developed and implemented optimized inventory buffer solutions for Azure data centers.
- Developed and implemented optimized rack planning solutions constrained by power, components and budget.

### SEPTEMBER 2021 – OCTOBER 2022

#### **MACHINE LEARNING ENGINEER, POINTSBET, DENVER, CO**

- Developed and deployed recommender systems on Azure to generate customized feed pages, significantly boosting customer engagement in sports betting by leveraging collaborative filtering to analyze cross-sport user behavior.
- Developed and deployed fully automated detection systems on Azure to identify anomalies, fraudulent transactions, and promotional abuse, with real-time alerting to operational teams.

### MAY 2018 – AUGUST 2018

#### **RESEARCH ENGINEER INTERN, YAHOO!, SUNNYVALE, CA**

Developed a recommender system for targeted advertising using factorization machine models trained on extremely sparse user segmentation data.

### MAY 2017 – AUGUST 2017

#### **STATISTICAL GENETICS & DATA SCIENTIST INTERN, MONSANTO, CHESTERFIELD, MO**

Developed an intelligent optimization solution to assign donors for improved trait integration quality and won a Monsanto Contribution Prize.

## EDUCATION

### DECEMBER 2020

#### **PH.D.- OPERATIONS RESEARCH, PURDUE UNIVERSITY, WEST LAFAYETTE, IN, USA**

My research focuses on developing fundamental distributed algorithms for solving large-scale optimization problems with applications to energy systems and machine learning models. [My Google Scholar Profile](#)

### JUNE 2011

#### **B.S.- THEORETICAL PHYSICS, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA**