# Yunkai 'Kai' Xiao

252-646-6186
YunkaiXiao@outlook.com
www.linkedin.com/in/yunkaixiao
yunkai.wordpress.ncsu.edu

## Professional Summary

- Solid data and information management skills and experience in machine learning and database management systems result in 6 toolsets, a new data product, a paper sent, a patent filed, and 60% shortened data processing time for multiple companies.
- Strong leadership and communication skills, with expertise in machine learning and data enhancement, evidenced in leading a team of 3 cross department, created core functionality of a product in 2 months meeting demand within tight timeline.
- Excellent collaborator with organizational, strategic planning, and Scrum agile management skills, as demonstrated by successfully secured funding and hosted 2 events with 500 attendees each time, led & mentored 2 teams of 7 people each.

## Professional Work Experience

### NLP and Machine Learning Researcher, Scrum Master
8/2018 - Present
*North Carolina State University*

- Using solid data and information management skills, applying machine learning and natural language processing techniques through tools including TensorFlow and NLTK, generated actionable information from data as demonstrated in co-authored paper to be reviewed at conference 45 days from joining the lab.
- With excellent communication, collaboration, and strategic planning skills, leveraging knowledge in Scrum agile management, leading a team of 7 producing 3 papers with short 6-week deadline.

### Machine Learning Algorithm Engineer Intern
5/2018 - 8/2018
*BMSMART Technology CO., LTD*

- With excellent leadership skills and adaptability, led a team of 3 members quickly adapted unfamiliar LeNet machine learning algorithm and image data enhancement technique, resulting in an OCR product from scratch with patent pending.

### Part-time Data Engineer, Software Developer
5/2016 - 5/2018
*Lapetus Solutions Inc*

- Utilizing great data management, creative problem-solving skills, with SQL and NoSQL as backend, Python and PyQt as logic and front end, created a data management system from scratch, cut down data aggregation time by 60%
- With decent knowledge of current industry trends, implemented machine learning techniques with the graphlab-create platform, deployed 6 prototype machine learning models within weeks and compared their performance, supported the company's strategic decision making.

## Education Background

### PhD in Computer Science
8/2018 - Present
*North Carolina State University*

### MS in Computer Science and Information Systems             8/2014 – 12/2017
*University of North Carolina – Wilmington*
CS honor society: UPE, MIS honor society: BGS, President of the Chinese Club

### BS in Computer Science and Technology             8/2010 – 6/2014
*Beijing Institute of Technology, China*
Director and Liaison officer of Association of Student Organization; Study abroad in India for a year

## Skills and Languages

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|---|---|---|
| SAS, SQL, NoSQL | Python, Ruby, Java, C&C++ | EMC certified data scientist |
| TensorFlow, Keras | NLTK | Pandas, NumPy |
| ITIL management certified | EMC data storage certified | WordPress, Tableau |
| CompTIA Linux+ certified | Cloud computing | Certified Scrum Master |
| Chinese native speaker | English certified interpreter | Japanese elementary level |

## Affiliations and Hobbies

- Avid scuba diver, certified rescue scuba diver
- President of Chinese club, member of Asian student association, secured funding for over $6,000, successfully hosted Chinese new year celebration twice with 500 people each time