

# Yifei Xiao

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1460 Blue Course Drive, Apartment 21, State College, Pennsylvania 16801

## Education

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**The Pennsylvania State University**, State College, PA Anticipated graduation: *May 2020*  
**Master of Science in Computer Science and Engineering** (GPA: 3.79 / 4.0)

Relevant Coursework: Computer Networks • Computer Security • Image Processing • Distributed Systems

**The Pennsylvania State University**, State College, PA *August 2015 – May 2018*  
**Bachelor of Science in Computational Mathematics** (GPA: 3.92 / 4.0)

Relevant Coursework: Algorithms & Data Structures • Operating Systems • Programming Language Principles

Academic Honors: Schreyer Honors Program • 2018 Leonhard Euler Memorial Scholarship • *Magna cum laude*

• Phi Kappa Phi • Dean's List (*all semesters*)

## Research and Project Experience

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**Sleep Quality Monitor** *March 2019 – present*

- Developing a smartwatch for monitoring user's sleep quality
- Adapting smartwatch sensors for recording data continuously during sleep
- Integrating NumPy and Scipy libraries for analyzing collected data
- Detecting and classifying various sleep disorders (with 99% accuracy) by building ARIMA models and Supervised Machine Learning Classifications
- Utilizing Python, R programming, Matlab, Numpy, Scipy, Scikit-learn, Regex, Google Compute Engine, Keras, Pytorch

**e-Auction Website** *January – May 2018*

- Designed and created a real-time e-Auction website on which users can make bids and purchase products online
- Created a back-end database of regularly updated product prices and user information; incorporated into daily sales reports
- Designed and implemented user-interface features for signing up, searching for products, participating in auctions, and sending feedback
- Utilized HTML5/CSS, JavaScript, PHP, Git, MySQL, Adobe Dreamweaver

**P2P File-Sharing** *September– October 2018*

- Created a P2P file-sharing system that allows simultaneous input from multiple users
- Achieved download acceleration by means of parallel downloading and BitTorrent protocol
- Improved system stability by setting a tracker that users can join and leave at any time without affecting other users' interface with the system
- Utilized Python, Socket (TCP/IP) Programming, Multithreading, BitTorrent

**Dataset Converter** *June – July 2019*

- Designed and implemented a program that converts comma-separated values (.csv) files to computable Wolfram Language
- Added features for specifying converted data and quickly reviewing results
- Utilized Wolfram Language, Mathematica, regex, Git

## Leadership Experience

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**ASA DATAFEST Competition**, State College, PA

*Team Leader* *April 2018*

- Analyzed one year of Indeed.com data, using R programming; built several regression models to help companies optimize posting dates
- Presented the results to three industry representatives and won Best Insight Award

## Professional, Internship, and Assistantship Experience

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**Penn State Engineering Department**, State College, PA

*Teaching Assistant for Professor Brad Sottile* *January 2019 – present*

- Tutoring 1,000+ students in eight sections of MATLAB programming course
- Holding office hours to help students with labs and assignments; grading homework and projects
- Designing instructional and assessment materials for Dr. Sottile

**Sciyon Automation Group Co., Ltd.**, Nanjing, China

*Software Engineer Intern* *June – August 2018*

- Updated the company's Enterprise Resource Planning (ERP) Sales module with a more concise user interface
- Improved user experience with functions for ordering and checking order status
- Used database to store and update user data
- Utilized Java, Oracle SQL Developer

**Brose Fahrzeugteile GmbH & Co. KG, Shanghai, China**  
*Information Technology Intern*

*May– August 2017*

- Upgraded 90% of company computers from Windows 7 to Windows 10
- Helped troubleshoot and resolve colleagues' computer software and hardware problems
- Used anti-virus software to monitor company network security
- Utilized iET Workcenter, Wimera Systems, Kaspersky Antivirus

### **Skills**

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**Software:** Python, Matlab, Java, C, SQL, JavaScript, HTML/CSS, PHP

**Languages:** Mandarin (Native), English (Fluent)

### **Interests**

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Software development • Customized website design