

# Curriculum Vitae

## PERSONAL INFORMATION Weiran Yang

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## EDUCATION

2016.9–Present

Bachelor of Engineering,  
Major in Computer Science and Technology  
Beijing University of Posts and Telecommunications (211 Project)

--Mathematics courses and marks:

**Advanced Mathematics 1 (88)**

Advanced Mathematics 2 (86)

**Linear Algebra (95)**

Methods of Solving Advanced Mathematics Problems 1 (89)

**Probability Theory and Stochastic Processes (90)**

--Key courses and marks:

Principle of Database System (77)

Programming for Data Structures (93)

Formal Languages and Automata (93)

**Discrete Mathematics 1 (88)**

Computer Architecture (82)

Curriculum Practice of Computer Networks (82)

**Objected-Oriented Programming in C++ 1 (87)**

Object-Oriented Programming Design and Practice C++ 2 (88)

The Course Design of the Computer Organization Principles (87)

**Algorithms and Data Structures (81)**

Design and Analysis of Algorithms (80)

Computer Organization Principles (85)

**Big Data (83)**

--Courses in this semester

**Operating System**

Compiler Principle and Technology

**Data Warehouse and Data Mining**

Weight Grades: 82.68/100

WGPA: 3.3/4

Weight Grades (**key courses**): 84.82/100

WGPA (**key courses**): 3.51/4

2018.9-2019.2      **Exchange Program as Master of Engineering**  
Institut Supérieur d'Électronique de Paris ( ISEP )

--Courses at ISEP

Programming Languages and Compilers (16.5)

Dependability and reliability (15.5)

System constraints and implementation (19)

Weighted average mark: 16.17/20

GPA: 3.78/4.0

## PROJECTS

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2018.3-2018.6      **A text editor *Miniword* based on QT (team work)**

**Tasks:** Using C++, designed a text editor with following functions:

- Display the text and edit text color or style
- Open existing text file, create a new one or save the file
- Move the cursor by the mouse or the keyboard
- Type characters or change line by pressing keys
- Delete input text with backspace or delete key
- Implement text search and replacement
- Implement copy and paste functions
- Select multiple characters and operate on them

**Responsibilities:**

- Leader of the three-person team
- Define the main data structure, modules and the interfaces between modules
- Implement text and line insert, delete, copy, and paste
- Use KMP algorithm to implement text search and replacement
- Write the development document and test the main functions

2019.3-2019.6      **A simple DNS relay server based on UDP and Python (individual work)**

**Task:** Designed a program for DNS Relay Server to receive queries and return replies

**Action:**

- Use Server-Client model to both send and receive UDP packages
- Use a local file as a cache storing DNS entries, and update it regularly
- Use threads to handle several queries simultaneously

2019.3-2019.7      **A simple word-memorizing game with Server-Client model (individual work)**

**Task:** Designed a game for memorizing English words, including the following features:

- Effective to help users with memorizing words
- Mainly store files in locality and communicate with server to update data
- Online battle between users

**Action:**

- Use C++ for object-oriented programming
- Use TCP for communication between Server and Client
- Use threads for the simultaneous running of functions

- Use a local file as an English dictionary for generating questions
- Design UI and mechanism of entertainment for user experience in the game

## LAB AND INTERNSHIP

2019.8

### Internship

#### ZTE Corporation

5G Wireless Network and IP product operation and maintenance internship

Configure the base stations for wireless telecommunication with specific software.  
Built enterprise intranet using particular types of routers and switchers.

2018.9-2019.2

### Research Experience

**Research and Development in Information Technologies Team (RDI Team),  
Institut Supérieur d'Électronique de Paris**

Research under supervision of Dr. Raja Chiky on Recommendation systems, especially real-time recommendation systems using variational Bayesian methods.

2019.8-Present

**Data Science and Service Research Center, Beijing University of Posts and Telecommunications, Beijing, China**

Researching on data mining for social network and its recommendation system supervised by Dr. Ting Bai. I use PyTorch to build a natural language processing model based on BERT.

The aim is to find the inherent relations between the users' psychological characteristics and the behavior of purchasing and making comments in a social network. I extract features from corpus of comments published on Yelp and train a neural network model to evaluate other users' psychological attributes. Then I apply these attributes to help building a more precise recommendation system.

## SKILLS AND HONOURS

TOEFL:

Overall	Reading	Listening	Speaking	Writing
98	29	26	20	23

Honours:

- Third Prize of Scholarship of Beijing University of Posts and Telecommunications
- Third Prize of the National English Competition for College Students

Programming languages:

- C / C++ / Python / Java
- JavaScript / Clojure

Tools:

- PyTorch / Tensorflow
- Latex
- SQL / HTML / OpenGL
- Linux
- Wiresharks

Others skills related to computer science:

- VHDL / assembly language

Extracurricular activities:

- French (about B1 level), Japanese (about N4 level), Spanish, Esperanto
- Soccer team member of School of Computer Science at BUPT