

# Bowei Xu

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## EDUCATION

**University of Southern California**, Los Angeles, CA Aug 2020–Dec 2022  
Master of Science, Computer Science **GPA: 3.61/4.00**

**Henan University (HENU)**, Kaifeng, Henan, China Sep 2016–June 2020  
Bachelor of Engineering, Computer Science and Technology **GPA: 3.69/4.00** Ranking: **Top 6% (14/244)**

## SKILLS

- **Programming Languages:** Java, Python, Golang, R, JavaScript, C++, MySQL, C#
- **Web Development:** HTML, CSS, Node.js, Git, Spring, Spring MVC, Spring Boot, Spring Cloud, Spring Security, Redis, Linux, Ubuntu, Unity, AWS EC2, AWS S3, AWS RDS, React.js, MongoDB, Cassandra, Docker, Kubernetes, Java multithreading
- **Product Management:** Agile/Scrum project management, Figma, Google Analytics, Jira, Jenkins
- **Language:** Chinese, English

## WORK EXPERIENCE

**Laplace Investment Management, Backend Engineer** July 2023–Present

- Working closes with web designer and Frontend developers to design and implement company's website.
- Used **HTML, CSS, JavaScript** to build website and implements UI improvement

**Chuwa America Corporation, Software Engineer** Santa Clara, CA Apr 2023–Present

- Working closes with other developers and project manager to design software to satisfy customer's need.
- Implemented a **multi-threaded** message processing to handle lots of notifications concurrently, ensuring low latency.
- Built **RESTful** service using **Java, Python** and **JavaScript**, and worked with core concepts like **multithreading**.
- Identify and address performance bottlenecks, and rapidly fix bugs and solve problems.

**Social Payme, Backend Developer Intern** Miami, FL May 2023–July 2023

- Used **React.js** with **Tailwind.css** to render influencer's personalized webpage according to a given **API** or **JSON**.
- Created an article scraper to extract article data, ultimately got news articles relating to influencers.
- Work collaboratively with the development team to design, develop, and maintain the back-end infrastructure for our social media platforms. Develop and maintain databases to store and manage user data, content, and other information.

**DigiFinex, Software Engineer Intern** Irvine, CA June 2022–Aug 2022

- Reviewed documentation and source code of Waves, Decred and Decred-Next and completed the integration of these token by operating Golang programming language.
- Conducted development tests and code maintenance to prevent broadcast failure or query hash info failure.

## ACADEMIC PROJECTS

### Game Design Project

- Participated in the **prototype design** of a fruit ninja style fighting game and completed level selection and UI improvement.
- Implemented event tracking, analyzed the number of people who enter and success in a level, ratio of used types for every gear, times of gears showed and obtained, etc.

### Full Stack Social Media Application

- Implemented the social media features, such as Authentication, CRUD posts, like and comment on other people's posts.
- Utilized **MongoDB, React, Sanity** to complete frontend and backend of the social media app.

### Information Retrieval Engine

- Implemented a **multi-threaded** web crawler to simultaneously fetch data from various websites to reduce retrieval time.
- Achieved inverted index based on **MapReduce** to improve speed for key-words retrieval and optimized query efficiency.
- Implemented **PageRank** algorithm based on **Hadoop**, built adjacency matrix from hyperlinks of each page, and calculated Link-based Web Score based on page relation. Executed **AutoComplete** and **Spelling Correction** in search engines.

## INVOLVEMENT

**American Red Cross, Red Cross Volunteer** Salt Lake City, UT Apr 2023–Jun 2023

- Generated and analyzed reports regularly, reporting data trends and results to management.
- Proficiency in common data processing tools and software such as Microsoft Excel, etc.

## HONORS & AWARDS

- **HENU Merit Student** 2020 & 2019 & 2018 & 2017
- **HENU Merit Scholarship (Top 10%)** 2020 & 2019 & 2018 & 2017