

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

## WORK EXPERIENCE

**Fuel Cell Store, Web Developer** Bryan, TX Aug 2023–Present

- Updating, maintaining, expanding, and scaling current websites and servers, and designing new company web sites.
- Full-stack development integrated the company's internal systems, greatly improved the performance of the internal systems, optimized the database table structure, and greatly improves the system speed and user experience.
- Consistently created well-designed, tested code using best practices for website development and implemented continuous integration and continuous deployment.
- Implemented comprehensive data management solutions that encompass the design and construction of data pipelines, efficient data collection and storage, as well as the execution of ETL (Extract, Transform, Load) processes for effective data processing.

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

- Working closely with web designer and Frontend developers to design and implement company's website.
- Used **HTML, CSS, JavaScript, React.js** to build website and implements UI improvement.
- Used **Microsoft Azure** to build and deploy to fix errors and resolve issues.

**Social Payme, Backend Developer Intern** 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 and Decred-Next and completed the integration of these tokens 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.

## HONORS & AWARDS

- HENU **Merit Student** 2020 & 2019 & 2018 & 2017
- HENU **Merit Scholarship (Top 10%)** 2020 & 2019 & 2018 & 2017
- 1<sup>st</sup> place in the 2023 Salt Lake City Go Tournament, College Station Go Tournament, Houston Go Tournament