

# Zirui Zheng

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## EDUCATION

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### Hunter College, CUNY

Bachelor of Arts in Computer Science, Minor in Mathematics

New York, NY  
Expected June 2025

- GPA: 3.68 / 4.0
- Dean's Honor 2021 - 2024
- **Relevant Coursework:** C++ Programming, Database Management, Big Data, SQL, BlockChain

## SKILLS

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**Certifications:** AWS Solution Architect Associate, AWS - July 2024 ([Certified Link](#))

**Programming Language:** C++, Python, SQL, JavaScript, Terraform, GitHub Actions (YAML scripting), HTML, CSS, Bash, GDScript

**Technologies:** Git/GitHub, AWS, Azure, GCP (Google Cloud), CI/CD, Infrastructure as code (IaC), Kubernetes, Docker, MongoDB, Cypress, CloudFlare, Linux, Spyder, Cloud Computing, Web services

**Spoken Languages:** Mandarin (Native)

## PROFESSIONAL EXPERIENCE

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### Python Teaching Assistant

CUNY Hunter College

New York, NY  
Sep 2023 – May 2024

- Facilitated lecture sessions for over 100 students, enhancing understanding of Python and its libraries, resulting in improved comprehension and application of Python concepts.
- Guided students through complex algorithmic problem-solving, fostering enhanced problem-solving and debugging skills within the tech domain.
- Articulated complex concepts engagingly and clearly to diverse groups, utilizing various methods, including visual aids and interactive discussions, to ensure students understand challenging material effectively.

## PROJECTS

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### Zirui-Resume-website, Portfolio | Python, JavaScript, AWS, Terraform, CI/CD

Feb 2024 - June 2024

[www.ziirui-resume-website.com](http://www.ziirui-resume-website.com)

- Personal website leveraging AWS infrastructure with a real-time visitor counter.
- Developed the user interface using HTML, CSS, and JavaScript; hosted files using S3 and distributed via CloudFront.
- Developed Python scripts for AWS Lambda to retrieve data from DynamoDB and create a visitor counter.
- Implemented Terraform and automated deployment via GitHub CI/CD pipeline for AWS resources.
- Employed Cypress for testing updated code before deployment to AWS.

### Game ZARS | Python, C++, GDScript, Google Cloud Platform, Teamwork

Jan 2024 – May 2024

- Collaboratively developed a turn-based game using GDScript with a team of four.
- Integrated Firebase for efficient storage and retrieval of user data, freeing up user PC memory space.
- Debugging and unit testing the backend algorithm and connection with GCP.
- Worked closely with team members to design and implement complex game mechanics supporting intense 4 vs. 4 combat scenarios.

### Annt DB | C++, Git, Unit Testing

Dec 2024 – Feb 2024

- Developed a Key-Value NoSQL system providing efficient in-memory and on-disk data storage.
- Implemented a sophisticated hashing algorithm in C++ to enhance key set and retrieval speed, resulting in a 20% performance increase compared to conventional array iterator search methods.
- Designed architecture to support future expansion to various NoSQL types.