

# Ethan Yifan Zhu

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## CAREER OBJECTIVE

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As a Master of Computing graduate with strong technical skills in programming and database management, I am seeking opportunities to gain hands-on experience in the Information Communication Technology area across all scientific disciplines. With previous experience in full-stack development and project management, I am eager to contribute to innovative and sustainable solutions. I am confident that my skills and passion for technology make me a strong candidate for this role.

## EDUCATION

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<b>The Australian National University (ANU)</b> Master of Computing	GPA: 6.00/7.00	07/2022-07/2024
<b>Southwest University</b> Bachelor of Engineering Computer Science and Technology	GPA: 87.25/100.00	09/2018-07/2022
Bachelor of Science in Applied Psychology (Minor)	GPA: 83.66/100.00	01/2020-07/2022
<b>University of California, Los Angeles (UCLA)</b> Exchange Programme: Introduction to Data Science	Grade: A	06/2021-08/2021 Credit: 4 units

## SKILLS & CERTIFICATIONS

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<b>Programming languages:</b> Java, C/C++, Python	<b>Databases:</b> MS SQL, MySQL
<b>Full-stack:</b> HTML, ASP.NET, C#, JavaScript, Rust, JUnit	<b>Framework:</b> Pytorch
<b>Operating Systems:</b> Linux/Unix, Windows, MacOS	<b>Version Control:</b> git
<b>Data Science:</b> R, SPSS, MATLAB	<b>Report:</b> Markdown, LaTeX
<b>Platforms:</b> GitHub, Atlassian (Jira, Confluence, Bitbucket), Slack, AWS Cloud	
<b>Certificates:</b> Amazon Web Services (AWS) Certificated Cloud Practitioner (Issued March 2024), Study Australia Industry Experience Program Completer (Issued July 2023)	

## PROFESSIONAL EXPERIENCE

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<b><i>The Australian National University, Canberra, Australia</i></b> Position: Casual Sessional Academic (tutor)	01/2026-present
<ul style="list-style-type: none"><li>Delivered tutorials, labs, and assessment support for ANU School of Computing courses.</li><li>S1 2026: COMP2400/6240 (Relational Databases), COMP4610/8610 (Computer Graphics).</li></ul>	
<b><i>Tutor2you, Canberra, Australia</i></b> Position: Academic Tutor	09/2025-present
<ul style="list-style-type: none"><li>Provided <b>private tutoring</b> in Mathematics and Science (Physics, Biology, and Chemistry) from primary school to college students, supporting their academic progress and exam preparation.</li></ul>	
<b><i>National Convention Centre Canberra, IHG Hotels &amp; Resorts, Canberra, Australia</i></b> Position: Public Area & Kitchen Attendant	09/2024-present
<ul style="list-style-type: none"><li><b>Maintained</b> equipment and public areas to safety and hygiene standards, supporting daily operations.</li></ul>	

*XtreamCompute Pty Ltd, Canberra, Australia*

07/2023-10/2023

Position: Software Engineer

Manager & Supervisor: Mark Reed, Chris Cheng

- Enhanced a **cloud-based** VR/AR gaming platform using **Rust** and XtreamLINK technology.
- **Integrated, tested and documented** seamless VR streaming for the cloud gaming solution
- Integrated XtreamLINK to stream VR games seamlessly between local laptops and remote cloud servers.

*Integrated Management Solutions (IMS), Canberra, Australia*

08/2023-09/2023

IMS Excel Development with ChatGPT Integration

Position: Software Engineer

Client: Leo Fan

- Developed a risk management solution in Excel with ChatGPT **API integration** via **Office Scripts**.
- Streamlined business risk analysis by **automating** insights and enhancing **user interactivity**.

*Southwest University, Chongqing, China*

07/2021-07/2023

**Industry Research Project: *Design and Research on Information System of Textile Production Process***

Position: Research Software Engineer

Supervisor: Prof. Lingxiao Jing, Prof. Jun Zhou

- Designed and developed an **information system** for textile production analysis using **full-stack development** covering front-end, back-end, database, algorithm design, testing, and maintenance (**ASP.NET, C# and Microsoft SQL Server**).
- Implemented the **Two-Step Clustering algorithm** to ensure parameter maintenance and data accuracy.
- **Deployed** the system in textile enterprises in Shandong and Chongqing, China, with ongoing upgrades.
- Delivered **IT support** by performing system maintenance, debugging software issues, and implementing technical solutions to optimise performance for industry clients.
- Assisted in **laboratory tasks** including data collection, equipment setup, and sample preparation.

## **PROJECT EXPERIENCE**

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**Government Research Project: *Study on the Driving Mechanism of Tourism Economy in Kunming, Yunnan – A Research Based on Entropy Weight Grey Correlation Analysis Model***

09/2020-12/2020

- Conducted **literature reviews, field research,** and on-site **surveys** to identify key drivers of tourism economic growth in Kunming and validate findings.
- Developed and applied theoretical models using **entropy weight** and **grey relational analysis** to evaluate influencing factors, providing strategic recommendations in marketing, education, and infrastructure development.

## **PUBLICATIONS**

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Li, L.F., Zhou, D.M., **Zhu, Y.F.**, Zhang, T.H., Zhang, Z.X., Jing, L.X., 2024. Multifunctional antibacterial cotton fabrics based on a triazole-halamine-diethyl phosphite. *Industrial Crops and Products*, 222(119571). <https://doi.org/10.1016/j.indcrop.2024.119571>.

Tang, X., Zhang, Z.X., Jing, L.X., Luan, K., Zhang, T.H., Zhou, S., **Zhu, Y.F.**, Li, L.F., Ye, J.P., 2024. Synthesis of a Quaternary Ammonium-Halamine and Preparation on the Modified Nanofibrous Filter with Superior Sterilization, Air Filtration, and Biodegradability. *ACS Appl. Mater. Interfaces*, 16(59245-59255) <https://doi.org/10.1021/acsami.4c12239>.

## **LANGUAGES**

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**English:** Fluent

**Mandarin:** Fluent

**Japanese:** Advanced

**French:** Intermediate