

Curriculum vitae: Yanhua Zong

Senior Front-End Web Developer, Purdue University
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Summary

Dedicated and experienced web developer with a strong foundation in both front and back end technologies. Seeking a teaching position to share industry insights, foster technical skills, and inspire the next generation of developers.

Skills

- Programming Languages: JavaScript, PHP, HTML, CSS, Python, C++
- Frontend Technologies: React, Angular
- Backend Technologies: Node.js, Express
- Database Management: MySQL, MongoDB
- Version Control: Git
- Web Development Tools: VS Code, Webpack, NPM
- Responsive Design and Cross-Browser Compatibility
- Problem Solving and Debugging

Work Experience

Senior Web Developer, Purdue University – West Lafayette, IN

07/2023 – Current

- Led a dynamic development team:
 - Spearheaded the team in creating innovative tools for various campus partners, enhancing overall operational efficiency.
 - Oversaw the development, maintenance, and optimization of websites owned by the Marketing and Communications department (Marcom).
- Collaborated for success:
 - Worked closely with cross-functional teams to conceptualize, design, and deliver high-quality web solutions aligned with institutional goals.
- Training and Skill Development:
 - Initiated and conducted training sessions for team members and campus partners, fostering continuous learning and skill development.

Front End Developer, Purdue University – West Lafayette, IN

02/2019 – 07/2023

- Empowered campus partners:
 - Developed tools catering to the unique needs of diverse campus partners, contributing to an improved collaborative environment.
- Website Development and Maintenance:
 - Played a pivotal role in the development and ongoing maintenance of websites under the purview of the Marcom department.
- Cross-functional collaboration:

- Collaborated seamlessly with teams from different departments, ensuring the successful delivery of web solutions aligned with project objectives.
- Training and Knowledge Transfer:
 - Conducted training sessions on front-end development best practices and emerging technologies for team members and campus partners, fostering a culture of continuous improvement.

Global Leadership Research Fellow, Kyoto University – Kyoto, Japan

10/ 2010 – 09/2011

- Developed a novel class of optical nanocomposites utilizing mesoporous silica particles as platforms for loading β -Ga₂O₃ nanocrystals, showcasing the capability for multi-color light emissions from these materials.
- Mentored students in the process, providing guidance and support for their academic and research endeavors.

Teaching Experience

- Training Facilitator | Purdue University
 - Designed and executed tailored training sessions for both team members and campus partners, offering comprehensive guidance on crucial topics such as web accessibility, SEO, and proficient usage of content management systems including Cascade and WordPress.
- Teaching Assistant | Kyoto University
 - Supported students as a teaching assistant, addressing inquiries and providing assistance to ensure a conducive learning environment. Engaged in proactive problem-solving and contributed to the overall effectiveness of the educational experience.

Projects

1. www.purdue.edu Website (2023)
 - Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
 - Role: Sole Developer
 - Description: Designed and implemented custom tools utilizing React and PHP. Notable features include:
 - Custom slider tool with hotspots for image display: [Example](#)
 - Instagram feed integration allowing manual uploads, Facebook API connection, or third-party plugin use: [Example](#)
 - Versatile news blocks with different layouts and support for RSS feeds: [Examples](#), [Examples](#)
 - Various slider blocks with customizable layouts: [Example](#), [Example](#), [Examples](#)
 - Pathway or timeline block with multiple content layout options: [Example](#)
2. www.purdue.edu/space/ Website (2024)
 - Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
 - Role: Sole Developer
 - Description: Designed and implemented custom blocks and tools to enhance website functionality. Notable feature:
 - Archive block capable of archiving diverse content with filters and a search bar controlled through Ajax calls: [Example](#), [Example](#)
3. stories.purdue.edu Website (2022)
 - Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
 - Role: Lead Developer
 - Description: Led the development team for the Purdue Stories website. implemented dynamic landing pages auto generated by filters for easy content updates: [Example](#)

4. marcom.purdue.edu Website (2021)
 - Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
 - Role: Lead Developer
 - Description: Served as the lead developer for developing the Marketing and Communications website, a resource hub for campus partners. Implemented tools like the email signature generator: Tool

Certifications

- [Advanced React](#)
- [Create High-Fidelity Designs and Prototypes in Figma](#)
- [Increase SEO Traffic with WordPress](#)
- [Build Wireframes and Low-Fidelity Prototypes](#)
- [Conduct UX Research and Test Early Concepts](#)
- [Foundations of User Experience \(UX\) Design](#)
- [Start the UX Design Process: Empathize, Define, and Ideate](#)

Publications

1. *Optical Materials Express* 4, 518 (2014).
"Multicolor light emissions from mesoporous silica particles embedded with Ga₂O₃ nanocrystals"
Yanhua Zong, Xiangeng Meng, Koji Fujita, and Katsuhisa Tanaka
2. *Advanced Optical Materials* 1, 573 (2013).
"Metal-Dielectric Core-Shell Nanoparticles: Advanced Plasmonic Architectures Towards Multiple Control of Random Lasers"
Xiangeng Meng, Koji Fujita, Yusuke Moriguchi, **Yanhua Zong**, and Katsuhisa Tanaka
3. *Journal of Materials Research* 28, 1031 (2013).
"Ferromagnetic induced by lattice volume expansion and amorphization in EuTiO₃ thin films"
Katsuhisa Tanaka, Koji Fujita, Yuya Maruyama, Yoshiro Kususe, Hideo Murakami, Hirofumi Akamatsu, **Yanhua Zong**, and Shunsuke Murai
4. *Inorganic Chemistry* 51, 4560 (2012).
"Crystal and Electronic Structure and Magnetic Properties of Divalent Europium Perovskite Oxides EuMO₃ (M = Ti, Zr, and Hf): Experimental and First-Principles Approaches"
Hirofumi Akamatsu, Koji Fujita, Hiroyuki Hayashi, Takahiro Kawamoto, Yu Kumagai, **Yanhua Zong**, Koji Iwata, Fumiyasu Oba, Isao Tanaka, and Katsuhisa Tanaka
5. *Journal of the American Ceramic Society* 95, 716 (2011).
"Local structure of amorphous EuO-TiO₂ thin films probed by X-ray absorption fine structure"
Yanhua Zong, Koji Fujita, Hirofumi Akamatsu, Seisuke Nakashima, Shunsuke Murai, and Katsuhisa Tanaka
6. *Physica status solidi (c)* 8, 3051 (2011).
"Ferromagnetic amorphous EuZrO₃ thin films with reentrant spin glass transition"
Yanhua Zong, Koji Fujita, Hirofumi Akamatsu, Shunsuke Murai, and Katsuhisa Tanaka

7. *Physical Review B* 82, 224403 (2010).
"Impact of amorphization on the magnetic properties of EuO-TiO₂ system"
Hirofumi Akamatsu, Koji Fujita, **Yanhua Zong**, Naohiro Takemoto, Shunsuke Murai, and Katsuhisa Tanaka
8. *Applied Physics Letters* 96, 252901 (2010).
"Magnetodielectric effect in EuZrO₃"
T. Kolodiaznyi, K. Fujita, L. Wang, **Y. Zong**, K. Tanaka, Y. Sakka, and E. Takayama-Muromachi
9. *Journal of Non-Crystalline Solids* 356, 2389 (2010).
"Preparation and magnetic properties of amorphous EuTiO₃ thin films"
Yanhua Zong, Koji Fujita, Hirofumi Akamatsu, Shunsuke Murai, and Katsuhisa Tanaka
10. *Journal of Solid State Chemistry* 183, 168 (2010).
"Antiferromagnetism of perovskite EuZrO₃"
Yanhua Zong, Koji Fujita, Hirofumi Akamatsu, Shunsuke Murai, and Katsuhisa Tanaka
11. *Applied Physics Letters* 94, 062512 (2009).
"High-quality antiferromagnetic EuTiO₃ epitaxial thin films on SrTiO₃ prepared by pulsed laser deposition and postannealing"
Koji Fujita, Naoki Wakasugi, Shunsuke Murai, **Yanhua Zong**, and Katsuhisa Tanaka
12. *Physica status solidi (c)* 6, S102 (2009).
"Random lasers from highly transparent polymer films containing superfine silver nanoparticles"
Xiangeng Meng, Koji Fujita, Shunsuke Murai, **Yanhua Zong**, Satoshi Akasaka, Hirokazu Hasegawa, and Katsuhisa Tanaka
13. *Applied Physics Letters* 92, 201112 (2008).
"Random lasers with coherent feedback from highly transparent polymer films embedded with silver nanoparticles"
Xiangeng Meng, Koji Fujita, **Yanhua Zong**, Shunsuke Murai, and Katsuhisa Tanaka
14. *Journal of Crystal Growth* 310, 156 (2008).
"Growth and spectral properties of Er:Gd₂SiO₅ crystal"
Xiaodong Xu, Guangjun Zhao, Feng Wu, Wenwei Xu, **Yanhua Zong**, Xiaodan Wang, Zhiwei Zhao, Guoqing Zhou, and Jun Xu
15. *Applied Physics B: Lasers and Optics* 90, 133 (2008).
"Room-temperature cw and pulsed operation of a diode-end-pumped Tm:YAP laser"
S. S. Cai, J. Kong, B. Wu, Y. H. Shen, G. J. Zhao, **Y. H. Zong**, and J. Xu
16. *Journal of Alloys and Compounds* 462, 347 (2008).
"Growth and spectral properties of Yb,Tm:YAG crystal"
Xiaodong Xu, Feng Wu, Wenwei Xu, **Yanhua Zong**, Xiaodan Wang, Zhiwei Zhao, Guoqing Zhou, and Jun Xu
17. *IEEE Transactions on Magnetics* 44, 2796 (2008).
"Structural and Magnetic Properties of CdFe₂O₄ Thin Films Fabricated via Sputtering Method"
Hirofumi Akamatsu, **Yanhua Zong**, Yosefu Fujiki, Kazuaki Kamiya, Koji Fujita, Shunsuke Murai, and Katsuhisa Tanaka

18. *Chinese Journal of Lasers* 35, 601 (2008).
"Judd-Ofelt Analysis of Spectroscopic Properties of Tm^{3+} Doped Lu_2SiO_5 Crystals"
Baoquan Yao, Liangliang Zheng, Guangjun Zhao, and **Yanhua Zong**
19. *Chinese Physics Letters* 24, 2597 (2007).
"Efficient diode-pumped $\text{Tm}:\text{YAlO}_3$ laser with a pump recycling scheme"
Baoquan Yao, Yufeng Li, Yuezhu Wang, Xiaoming Duan, Guangjun Zhao, **Yanhua Zong**, and Jun Xu
20. *Chinese Optics Letters* 5, 286 (2007).
"High efficient diode-pumped $\text{Tm}:\text{YAP}$ laser at room temperature"
Yufeng Li, Baoquan Yao, Yuezhu Wang, Youlun Ju, Guangjun Zhao, **Yanhua Zong**, and Jun Xu
21. *High power and particle beams* 19, 1632 (2007).
"Tm: YAP laser pumped by fiber-coupled diode"
Baoquan Yao, Yufeng Li, Yuezhu Wang, Youlun Ju, Guangjun Zhao, **Yanhua Zong**, and Jun Xu
22. *Journal of Chinese Rare Earth Society* 25, 509 (2007).
"Properties of Ce: YAP crystals with different dopant concentration"
Dunhua Cao, Guangjun Zhao, **Yanhua Zong**, and Jun Xu
23. *Journal of Crystal Growth* 291, 468 (2006).
"Growth and its spectroscopic properties of $\text{Sm}:\text{YAP}$ crystal"
Yanhua Zong, Guangjun Zhao, Jiang Zhu, and Jun Xu
24. *Journal of Crystal Growth* 294, 416 (2006).
"Growth and spectral properties of Gd_2SiO_5 crystal codoped with Er and Yb"
Yanhua Zong, Guangjun Zhao, Chengfen Yan, Xiaodong Xu, Liangbi Su, and Jun Xu