

ZEYU ZHAO

$$\text{MOBILE: } \frac{19 \cdot \left(\int_{-\infty}^{+\infty} e^{-\frac{x^2}{2}} dx \right)^4 \cdot \sum_{k=0}^{11} \left(\int_0^{+\infty} x^k \cdot e^{-x} dx \right)}{3 \cdot \sum_{k=1}^{\infty} \frac{1}{k^2}} + \sum_{k=0}^{\infty} \frac{13884090}{e \cdot k!}$$

WEBSITE: zeyu.me
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EDUCATION BACKGROUND

Harvard University

M.Sc. in Computational Science & Engineering, GPA: 4.0 / 4.0

- Focus on Statistics, Machine Learning and Parallel Computing

Cambridge, MA, USA

2017 - 2019

Simon Fraser University (Dual Degree Program)

B.Sc. in Computing Science, Minor in Math, GPA: 4.22 / 4.33, First Class with Distinction

Burnaby, BC, Canada

2014 - 2017

Zhejiang University (Dual Degree Program)

B.Eng. in Computer Science & Technology, GPA: 3.91 / 4.0, China National Scholarship (top 1%)

Hangzhou, ZJ, China

2012 - 2014

WORK EXPERIENCE

ChohoTech

Co-founder & CEO

Co-founder & CTO

Hangzhou, ZJ, China

Sept. 2025 - Present

Nov. 2021 - Sept. 2025

Products

- ChohoCloud: Delivers highly available algorithm API services tailored for the dental industry.
- LingOral SaaS: A comprehensive medical imaging platform for storage, analysis, diagnosis, and management, designed for dental institutions and individual practitioners.
- LingOral Lab: An advanced orthodontic planning and design software for manufacturing plants or large clinics to design teeth movement and produce aligners.
- Moeli: A remote orthodontic monitoring solution for consumers, integrating both hardware and software components.

Job Responsibilities

- Led the development of a high-performance cloud-based platform for machine learning algorithm inference.
- Directed the research and development of cutting-edge AI algorithms for the dental industry, achieving industry-leading accuracy and processing speed.
- Oversaw the planning and design of complex software systems, ensuring seamless integration and scalability.
- Managed day-to-day operations, team development, and company strategy.
- Participated in strategic business negotiations with key clients and core suppliers.

iScanBot, joint venture between ChohoTech & Angelalign Technology Inc.

CTO

- To run the original Moeli business in a new entity

Hangzhou, ZJ, China

Dec. 2024 - Present

NVIDIA

Sr. System Engineer - Machine Learning

Santa Clara, CA, USA

Mar. 2019 - Sept. 2021

- Technical lead of NVIDIA TLT (Transfer Learning Toolkit) Conversational AI module (including ASR, NLP and TTS)
- Main developer of SSD / DSSD / YOLOv3 / YOLOv4 detection architectures and multiple classification models in NVIDIA TLT Vision module, all support quantization-aware training / post-training quantization and model pruning.
- Implemented TensorRT plugins (with CUDA) so that TLT models can run on NVIDIA DeepStream.
- Main developer of the feature registration part of the internal access control system based on face recognition.
- Contributed to development of a high-quality internal model for people detection.
- Implemented simulators to generate synthetic data to assist network training, using both UE4 and NVIDIA Omniverse.
- Contributed to an internal few-shot learning project for fraud detection.

NVIDIA

System Engineer Intern - Machine Learning

SFU Computational Logic Lab

Research Assistant (Advisor: Oliver Schulte)

- Implemented a Markov model based on ~35M game events to evaluate actions on ice hockey games.
- Co-author of three related papers and one pending patent.

Santa Clara, CA, USA

May. 2018 - Aug. 2018

Burnaby, BC, Canada

Jan. 2015 - Mar. 2017

Arista Networks Inc.

Software Developer Intern - EOS Kernel

Burnaby, BC, Canada

Sept. 2015 - Dec. 2015

- Upgraded the iproute package and the corresponding test files to match the new kernel by investigating and rewriting most Arista-specified patches for this package.
- Adapted and rewrote Arista-specified kernel patches to improve its compatibility with Linux kernel 3.18.
- One patch I wrote was merged to Linux Kernel upstream (*printk: add clear_idx symbol to vmcoreinfo*).

PUBLICATIONS

- Shi, Z., Meng, Z., Chen, R., Feng, Y., **Zhao, Z.**, Hao, J., ... & Zheng, Y. **LETA: Tooth Alignment Prediction Based on Dual-branch Latent Encoding.** *IEEE Transactions on Visualization and Computer Graphics*, 2024.
- O. Schulte, **Z. Zhao**, M. Javan, P. Desaulnier and C. Boucher. **Apples-to-Apples: Clustering and Ranking NHL Players Using Location Information and Scoring Impact.** *MIT Sloan Sports Analytics*, 2017.
- O. Schulte, M. Khademi, S. Gholami, **Z. Zhao**, M. Javan and P. Desaulnier. **A Markov Game Model for Valuing Actions, Locations, and Team Performance in Ice Hockey.** *Data Mining and Knowledge Discovery* 31, 1735-1757 (2017)
- O. Schulte, **Z. Zhao** and K. Routley. **What is the Value of an Action in Ice Hockey? Q-Learning for the NHL.** *Machine Learning and Data Mining for Sports Analytics - ECML/PKDD Workshop*, 2015.

PATENTS

- (CN): **Zeyu Zhao**, Chenglong Ma. **Method for cutting bottom of dental three-dimensional digital model** CN117765215A
- (CN WO): Yiqun Song, **Zeyu Zhao**. **Computer-implemented method for generating orthodontic tooth treatment scheme** CN118675698A
- (CN WO): Chenglong Ma, **Zeyu Zhao**. **Segmentation method for dental three-dimensional digital model** CN118691732A
- (CN WO): Chenglong Ma, Wenke Yu, **Zeyu Zhao**. **Method for generating simulated lateral views after orthodontic treatment** CN117726659A
- (CN WO): Chenglong Ma, Danhua Ling, **Zeyu Zhao**. **Oral panoramic radiograph segmentation method** CN117765002A
- (CN WO): **Zeyu Zhao**, Jianqiao Cui. **Dental photography apparatus** CN219126318U
- (CN): **Zeyu Zhao**, Chenglong Ma. **Method for changing appearance of patient** CN118887079A
- (CN EP US): **Zeyu Zhao**, Jianqiao Cui. **Dental imaging device** US20230293001A1
- (CN DE US): **Zeyu Zhao**, Shangru Li, Parthasarathy Sriram, Farzin Aghdasi. **Object simulation using real-world environments** US20220237336A1
- (CA WO EP US): O. Schulte, S. Gholami, **Z. Zhao**, M. Javan and P. Desaulnier. **SYSTEM AND METHOD FOR EVALUATING TEAM GAME ACTIVITIES.** US20190091541A1

You can find my complete patent list by searching for me on Google Patents.

TECHNICAL SKILLS

- Programming Languages: Python, C/C++, MySQL, JavaScript, HTML, CSS, PHP, MATLAB, R
- Packages / Toolkit: Pandas, Scikit-learn, Matplotlib, PyMC3, PyTorch, TensorFlow, Keras, TensorRT
- Knowledge of Database, Algorithms, Machine Learning, Computer Vision, Graphics, OS, Networking and Parallel Computing
- Code & Project Samples: <https://github.com/zeruniverse> (1900+ stars in total)