

# Tzu-Yun Ariel Shann

Software Engineer

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👤 lasirenashann

📍 Taiwan

## 🌐 LANGUAGES

**Mandarin** — Native

**English** — IELTS 8.0

**German** — A2-B1

**Spanish** — A1

**Korean** — A1

**Japanese** — A1

## 🔗 REFERENCES

**Vivienne Chen**, VP Operations,  
Phazemos  
[viviennelchen@google.com](mailto:viviennelchen@google.com)

## 👤 PROFILE

I am committed to continuous growth as an AI/software engineer, and I thrive in fast-paced startup environments.

With over 7 years of experience in Machine Learning (ML) and data, I am deeply passionate about applying ML techniques to real-world scenarios. My proven ability to solve complex problems by integrating diverse technologies, even those unfamiliar, underscores my adaptability and problem-solving expertise.

## 🎓 EDUCATION

**University of British Columbia**, MSc in Computer Science

Sep 2018 – Apr 2022 | Vancouver BC, Canada

- Co-supervised by Prof. Leonid Sigal and Prof. Michiel van de Panne, and graduated with a 92.2% GPA
- My research focused on reinforcement learning. Please refer to my MSc Thesis: *'Reinforcement Learning in the Presence of Sensing Costs'* for more detail

**National Tsing Hua University**, BSc in Computer Science

Sep 2014 – Jun 2017 | Hsinchu, Taiwan

- My undergraduate research focused on human-computer interaction (HCI), supervised by Prof. Hao-Chuan Wang
- Worked as a part-time research assistant to Prof. Chun-Yi Lee, on reinforcement learning and robotics
- GPA: 3.96/4.30

## 🧠 SKILLS

Python | Machine Learning | Reinforcement Learning |  
Computer Vision | PyTorch | Tensorflow | NumPy |  
Pandas | scikit-learn | Matplotlib | Git | Shell Scripts |  
C/C++ | Java | Matlab | SQL | Apex

## 👜 PROFESSIONAL EXPERIENCE

**Software Engineer**, Phazemos [📄](#)

Feb 2024 – present | Remote

- Develop Apex code to create complex business processes and custom logic within Salesforce
- Create Python-based tools and automations to streamline workflows and enhance operational efficiency
- Lead initiatives to pre-process, clean, and visualize data
- Integrate multiple data sources, and lead the development of client-facing dashboards, which successfully increases client's visibility into our services
- Proficient in technologies including Python, data visualization tools, and Salesforce

### **AI Engineer, Onoma AI** [↗](#)

Oct 2022 – Feb 2023 | Remote

- Developed computer vision components for AI webtoon (comics) generation
- Utilized techniques such as diffusion models, generative models, and object detection

### **Research Intern, RBC Borealis** [↗](#)

May 2020 – Nov 2020 | Toronto ON, Canada (Remote)

- Improved exploration strategies for reinforcement learning as a full-time intern under Dr. Ruitong Huang and Dr. Pablo Hernandez Leal

### **Research Assistant, ELSA Lab** [↗](#)

Jan 2017 – Aug 2018 | Taiwan

- Developed novel deep learning methods for reinforcement learning and robotic control as a full-time research assistant under Prof. Chun-Yi Lee
- Contributed to publications presented at internationally renowned conferences

### **Software Engineer Intern, MediaTek** [↗](#)

Jul 2016 – Sep 2016 | Hsinchu, Taiwan

- Designed and developed an internal tool for testing and profiling camera sensors using C/C++

## PUBLICATIONS

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### **Reinforcement Learning in the Presence of Sensing Costs,**

UBC MSc Thesis [↗](#)

2022

### **Adversarial Exploration Strategy for Self-Supervised Imitation Learning,**

Conference of Robot Learning (CoRL) (Oral presentation) [↗](#)

2019

### **Diversity-Driven Exploration Strategy for Deep Reinforcement Learning,**

Neural Information Processing Systems (NeurIPS) [↗](#)

2018

### **A Deep Policy Inference Q-Network for Multi-Agent Systems,**

International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS) [↗](#)

2018

### **Virtual-to-Real: Learning to Control in Visual Semantic Segmentation,**

International Joint Conference on Artificial Intelligence (IJCAI) [↗](#)

2018