

# Jude Lim (MS in Computer Science and Applications)

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## Summary

Master's graduate in Computer Science and Applications at Virginia Tech with 5 years of industry experience. With a focus on Human Computer Interaction, Data Analytics, and Machine Learning, I have significant experience building web applications with a variety of technologies such as HTML, Cascading Style Sheets (CSS), JavaScript, and Python in both front-end and full-stack development.

## Skills

### Hard Skills

Full Stack Web Development, Data Analytics, Human Computer Interaction (HCI), Machine Learning/AI, User Experience, Conversion Rate Optimization (CRO)

### Languages

English (*Native*), Mandarin (*Intermediate*), Cantonese (*Intermediate*), Bahasa Melayu (*Intermediate*)

## Education

|  |                    |
|--|--------------------|
| <b>Virginia Tech</b>   | <b>2021 - 2023</b> |
| <b>Master of Science in Computer Science</b> ( <i>GPA: 3.91</i> )<br><b>Graduate Certificate in Data Analytics</b> |                    |
| <b>University of Queensland</b>  | <b>2014 - 2017</b> |
| <b>Bachelor of Information Technology (Honors)</b>   |                    |

## Publications

### First author

**BackTrace: A Human-AI Collaborative Approach to Discovering Studio Backdrops in Historical Photographs** (AAAI HCOMP 2023 Full Paper)  
<https://doi.org/10.1609/hcomp.v11i1.27551>

### Co-author

**Behind the Canvas: A Human-AI Workflow for Tracing 19th-Century Photographers and Studio Backdrops** (AAAI HCOMP 2023 Demo - Best Poster/Demo Winner)  
[https://www.humancomputation.com/assets/wips\\_demos/HCOMP-23\\_paper\\_8465.pdf](https://www.humancomputation.com/assets/wips_demos/HCOMP-23_paper_8465.pdf)

### Co-author

**Human-in-the-loop for computer vision assurance: A survey**  
(Elsevier Engineering Applications of Artificial Intelligence)  
<https://doi.org/10.1016/j.engappai.2023.106376>

## Professional Experience

### Research Assistant

August 2021 - Present

**Crowd Intelligence Lab at Virginia Tech** (Arlington, VA, USA)

- Designed and developed BackTrace, a web-based platform that allows users to search and sort Civil War portraits using a novel AI pipeline. This project was published as a full paper and won best poster/demo at AAAI HCOMP 2023.
- Designed and developed a new homepage for Civil War Photo Sleuth, a free, web-based platform and an online community to help identify unknown portraits of soldiers from the American Civil War era (<https://doi.org/10.1016/j.engappai.2023.106376>).
- Assisted with the research, writing, editing, and submission of several paper submissions.

### Frontend Developer (Conversion Rate Optimization)

February 2018 - July 2021

**Conversion Kings** (Australia)

Increased conversion rates and revenue for over 40 national and international brands through the development, maintenance and analysis of over 250 A/B tests and web-pages using HTML, CSS, and JavaScript.

- Developed pixel-perfect, responsive, cross-browser A/B tests and web-pages based on prototypes provided by designers.
- Reduced project turnaround time and missed bugs by 30% by implementing a standardized user acceptance testing process and managing the testing team..
- Contributed to several large-scale Wordpress web development projects.

### Frontend Developer

March 2017 - November 2017

**Gliding Queensland** (Australia)

Fixed issues with the existing Joomla website and constructed a framework for redesigning based on design and development best practices.

### Intern

December 2015 – February 2016

**KPerak Implementation and Coordination Corporation** (Malaysia)

Delivered a full-stack PHP project in the form of an internal employee assessment web application. The project was completed 2 weeks ahead of schedule and subsequently deployed with minimal rework.

## Other Experience

### Hacker & Crew

July 2017

**GovHack 2017** (Australia)

Received honorable mention for the "Going places" national award category by developing a mobile PHP web application that guides users through Brisbane art installations using public bike racks.

## Other Certifications

### Google Analytics Academy

2019 - 2020

**Advanced Google Analytics**

**Google Tag Manager Fundamentals**

**Google Analytics for Beginners**

### MiTx on edX

2019

**15.071x The Analytics Edge**