

Lya Mun

Los Angeles, CA | 213-431-7939 | lyamun2023@gmail.com | <https://www.linkedin.com/in/lya-mun-654582279/>

Education

University of Illinois at Urbana-Champaign

Champaign, IL

Bachelor of Science, Data Science & Information Sciences - Computer Science Minor

May 2027

Major GPA: 4.0/4.0; Cumulative GPA: 3.85/4.0

- Coursework: Computer Science I & II (Java/C++), Discrete Structures, Data Science (Python), Information Sciences, Database (SQL), Data Structures and Algorithms, Linear Algebra, Statistical Analysis (R)

Professional Experience

Quve17 (Venture-backed Dental AI Platform Startups)

June 2024 – July 2024

Software/Research Engineer Intern

Seoul, South Korea

- Enhanced neural network algorithms for automatic dental crown design and feature extraction
- Developed an Importance-Performance Analysis (IPA) algorithm in Java for the dental patient feedback platform SurveyMedi, which led to a doubling of the response rate to 30%
- Conducted in-depth research in dentistry and prosthodontics to ensure precise and accurate segmentation of teeth from gingiva in AI models, contributing to the advancement of automated dental design processes
- Participated in data labeling using Meshmixer and JSON to enhance accuracy

Siesoft

May 2021 – Aug 2021

Front-end Developer Intern

Los Angeles, CA

- Translated client requirements into innovative front-end designs using Adobe Photoshop and Illustrator, and executed them with HTML, CSS, and JavaScript to create engaging user interfaces
- Improved real-world applications through focused frontend design and web development, applying theory to deliver responsive designs for optimal user experiences across devices

iANT Education

La Crescenta, CA

C++ Programming Project Teacher Assistant

Aug 2019 – Feb 2020

- Offered Sunday peer-to-peer coding support, aiding with projects and providing specialized support in debugging
- Created an evaluation form to assess students' coding skills, providing valuable feedback to teachers and parents

Project

Individual Cattle Face Identification Using Computer Vision | Python, Colab, Docker, Label Studio

Student Research Assistant

Aug. 2024 – Present

- Built YOLOv8 detection and classification models using 200 top-view images, achieving near-perfect accuracy in identifying 133 cattle IDs across diverse datasets to improve livestock management for small-scale farmers
- Performed data cleaning and processing by manually cropping images, using customized dataset on pretrained model, and drawing precise bounding boxes to minimize errors and improve model accuracy
- Balanced training datasets through advanced augmentation techniques, creating 2,010 samples—10x the original size—to significantly enhance model robustness
- Addressed visually similar cattle by optimizing classification through refined labeling techniques and dataset curation, ensuring accurate differentiation in edge cases

Personal Portfolio Website (<https://fldk0804.github.io/lyamun.github.io/>)

Dec. 2023 – May 2024

- Built a personal portfolio website featuring projects like a dice game app with custom animations
- Applied responsive design principles to ensure a smooth and consistent user experience across all devices
- Created unique logos and typography to effectively strengthen personalized branding

Institute of Transportation Engineers (ITE@UIUC) | Python, Visual Studio Code

Data Scientist

Aug. 2023 – May 2024

- Forecasted bus ridership and optimized routes in Urbana MTD using Python for improved efficiency
- Applied machine learning algorithms to visualize vehicles, further enhancing traffic management and planning

Technical Skills

Programming: C++, Java, Python, HTML/CSS, Django, JavaScript, SQL, R

Environment: Visual Studio Code, Colab, Jupyter Notebook, Eclipse, MySQL, Android Studio

Technology: IBM SPSS, MS Office, Excel, Meshmixer, Adobe Photoshop, Illustrator, Premiere Pro, Heroku

Language: English, Korean, Spanish (Elementary)