Lya Mun

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Education

University of Illinois at Urbana-Champaign, Champaign, IL — May 2026 (expected)
Bachelor of Science, Computer Science + Advertising — GPA: 3.81/4.0

- Dean's List (2024); Hearsey H & L Scholarship (2025), Evans Minority Students Scholarship (2025-2026)
- **Coursework**: Data Structures & Algorithms, Discrete Structures, CS (Java/C++), Databases, Linear Algebra, Data Science
  Planned: Software Design, Computer Architecture, Algorithms and Models of Computation

Technical Skills

- **Languages**: C++, Java, Python, JavaScript, HTML/CSS, SQL, C#, Swift
- **Frameworks & Libraries**: Django, Node.js, React Native, jQuery, ASP.NET MVC
- **Others**: VS Code, Android Studio, MySQL, Git, GitHub, Docker, Heroku, Tmux, Microsoft Office, Adobe Creative Suite

Professional Experience

GamePlay, Inc. | *C#, React Native, ASP.NET MVC, Postgres, Xcode* — May 2025 – Present
Mobile Application Developer Intern — San Francisco, CA (Remote)

- Built and tested React Native components using the iOS simulator for features like team creation and scheduling
- Contributed to MVP planning, integrating ASP.NET MVC with PostgreSQL and joining daily stand-up meetings

Quve17 | *Python, PyTorch, TensorFlow* — June 2024 – July 2024
Software/Research Engineer Intern — Seoul, South Korea

- Built an IPA algorithm in Java for the dental patient feedback platform, doubling response rates to 30%
- Enhanced neural networks for automated dental crown design by refining feature extraction and model performance
- Conducted research in prosthodontics to improve segmentation accuracy of teeth vs. gingiva in AI workflows
- Labeled 3D dental data using Meshmixer and structured JSON to boost annotation precision and training quality

Siesoft | *HTML, CSS, JavaScript, Adobe Photoshop, Illustrator* — May 2021 – Aug. 2021
Front-end Developer Intern — Los Angeles, CA

- Designed polished and client-tailored UI mockups using Adobe Photoshop and Illustrator for web applications
- Developed fully responsive, cross-platform web interfaces with HTML, CSS, and JavaScript
- Improved responsive user experience by applying modern frontend principles, focusing on usability and accessibility

Projects & Research Experience

Sublease Finder iOS Application | *SwiftUI, MapKit, Firebase Auth, Xcode, UIKit*

- Built a dual-flow app for browsing/posting subleases with search, map listings, image upload, and availability
- Integrated Firebase Auth for login and gated access to contact/post features with validation and image input
- Designed reusable components and layouts (e.g., FlowLayout), optimizing navigation and alignment with Apple HIG

Stock Price Prediction Web Application | *React, FastAPI, Python, Alpha Vantage API, GitHub Pages*

- Developed a full-stack web app to forecast next-day stock prices using linear regression, with React and FastAPI
- Built responsive React UI with Chart.js visualizations and FastAPI backend for live data fetching
- Implemented CI/CD workflows and streamlined deployment with GitHub Actions, ensuring fast iteration and stability

Self-Supervised Learning for Multimodal Time-Series Signals/IoT Sensing | *Python, PyTorch, TensorFlow* — Jan. 2025 – May 2025
Undergraduate Student Researcher

- Built a self-supervised pipeline for human activity recognition using multimodal time-series signals from IoT devices
- Pretrained a ViT-based Masked Autoencoder (MAE) using unlabeled sensor data with as little as 1% labeled input
- Matched fully supervised model performance within 10% using 99% fewer labeled samples across 12 sensor classes
- Demonstrated 4× faster training per epoch during fine-tuning compared to end-to-end supervised learning

Individual Cattle Face Identification Using Computer Vision | *Python, PyTorch, OpenCV, NumPy, Docker* — Aug. 2024 – May 2025
Undergraduate Research Assistant

- Built YOLOv8 models to detect and classify 133 cattle with near-perfect accuracy using 200 top-view images
- Reduced annotation errors by 40% by automating image labeling with Label Studio and refining bounding boxes
- Boosted model robustness by 10× data scaling with rotation and Gaussian noise augmentation
- Enhanced classification of visually similar cattle by 60% through dataset/labelling improvements

Personal Portfolio Website (fldk0804.github.io/lyamun.github.io/)