Yubin Li

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Education

University of Washington Seattle, WA

BS in Computer Science; Dean's List (All Quarters) *Sep. 2024 – Expected Dec. 2026*

- Relevant Coursework: Data Structures and Algorithms, Systems Programming, Software Design and Implementation, Database Systems, Machine Learning, Artificial Intelligence

Experience

Amazon Web Services Jun. 2026 - Present

Software Development Engineer Intern *Seattle, WA*

Husky Coding Project Oct. 2025 – Present

Software Engineer *Seattle, WA*

- Built a Python market-data ingestion pipeline using **yfinance**, storing raw and processed datasets in **Amazon S3** to support reproducible training and daily inference.
- Integrated a real-time inference API by connecting **AWS Lambda** to a **SageMaker real-time endpoint**, returning up/down confidence scores with **under 2s** target latency.
- Configured **CloudWatch** logging/alarms and least-privilege **IAM roles** with **KMS** encryption for S3 data and model artifacts.

Shoreline Community College Sep. 2023 – June 2024

Undergraduate Researcher *Shoreline, WA*

- Developed Python experiments on the COMPAS dataset to evaluate fairness issues in machine learning predictions across demographic groups.
- Analyzed sources of AI bias across data collection, model design, and user interaction, translating research findings into a framework for identifying biased model behavior.
- Co-authored a **20-page literature review** and presented research at the **UW Undergraduate Research Symposium**.

Projects

Speech-to-LaTeX (DubHacks Hackathon) | *React, Python, AWS* Oct. 2025

- Built a full-stack speech-to-LaTeX web app with a Python backend and React frontend.
- Architected a serverless backend using **AWS Lambda** and **DynamoDB** to handle concurrent requests.
- Processed 100+ audio samples with **under 3s** average end-to-end latency in testing.

Auto Squat Counter | *Python, OpenCV, MediaPipe* May 2025 – Aug. 2025

- Boosted detection accuracy by **15%** by optimizing the finite-state machine logic and implementing exponential moving average (EMA) to reduce angle noise.
- Implemented real-time visual feedback and CSV logging to enable post-workout performance analysis.

AI Music Platform | *React, Node.js, Gemini API, Firebase* June 2025 – July 2025

- Built a music streaming app allowing users to discover tracks and curate playlists; integrated **Gemini API** for mood-based recommendations.
- Increased average session duration by **25%** by delivering personalized content based on user sentiment analysis.
- Secured user data and synchronized playlist states across devices using **Firebase Authentication** and **Realtime Database**.

Technical Skills

Languages: Python, Java, C, JavaScript/TypeScript, SQL, HTML/CSS
Frameworks: React, Node.js, Express.js, Spring Boot
Libraries: PyTorch, OpenCV, NumPy, Pandas, Scikit-Learn
Cloud & DevOps: AWS, Docker, Git, Linux