An Lee

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WORK EXPERIENCE

BOC United States   *New York, NY*
Software Developer   *Dec 2024 - Present*

- Migrated nightly **ETL** of loan data from 5+ diverse source systems from Microsoft SQL Server Integration Services (SSIS) to a **Python-based solution with FastAPI, Apache Airflow, and Pandas**, automating processing of over **30k** records daily
- Integrated **Sentry** for centralized error tracking and alerting in Python services, reducing debugging and incident resolution time by 60% compared to the SSIS-based process
- Maintained and enhanced a **RESTful** loan management service by promptly patching and eliminating **15** medium and **2** high severity security vulnerabilities
- Participated in rotating overnight on-call duties to promptly diagnose and resolve batch errors, ensuring downstream batch jobs ran on schedule and maintained data accuracy

The Mimir   *New York, NY*
Software Developer   *Mar 2024 - May 2025*

- Built a language learning platform from scratch using **JavaScript**, **Vue.js**, and **Tailwind CSS** practices, serving 4,500+ registered users and sustaining 100+ DAUs
- Optimized RESTful API call flows and adopted **Pinia** for efficient state management, cutting page load times by 60% on high-traffic components and improving Lighthouse performance scores from 68 to 92
- Implemented an AI-driven audio assessment pipeline utilizing **Amazon Transcribe for ASR**, integrated with GPT-4 for semantic scoring and feedback generation, resulting in a 70% reduction in manual evaluation time
- Refined prompt engineering with **LangChain**, increasing quiz generation accuracy by 80%, leading to a 40% boost in average learner engagement metrics
- Designed and implemented a dynamic pop-up dictionary powered by **AWS Lambda**, supporting real-time language parsing and asynchronous word lookup, resulting in a 50% increase in in-app interaction and a 25% improvement in user retention

PricewaterhouseCoopers (PwC)   *Taipei, Taiwan*
Senior Associate Auditor   *Sep 2015 - Jul 2021*

- Spearheaded the 'Digital Pilot Team' to define and implement digitized workflows, streamlining repetitive tasks and reducing audit processing time by 35%, which significantly improved firm-wide operational efficiency
- Led a cross-department initiative of 30+ auditors to standardize audit data pipelines and automate testing logic with excel VBA, reducing manual errors by 40% and improving data consistency across client engagements
- Conducted ESG audits using **Pandas** and **Power BI** to assess sustainability KPIs, compliance metrics, and governance risk factors, enhancing transparency and regulatory compliance

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML, CSS

Database & Cloud: MySQL, PostgreSQL, MongoDB, AWS DynamoDB, AWS (EC2, RDS), GCP

Frameworks/Tools: FastAPI, Flask, Vue.js, Git, Docker, Kubernetes, Linux

EDUCATION

New York University, Courant Institute of Mathematical Sciences   *New York, NY*
Master of Science in Computer Science   *Sep 2021 - May 2023*

National Taipei University   *Taipei, Taiwan*
Bachelor of Business Administration in Accounting   *Sep 2011 - Jun 2015*