

Linh (Krystal) Ly

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EDUCATION

Denison University

Granville, OH

Bachelor's Degree, Computer Science and Data Analytics; GPA: 3.98/4.00

August 2020 – May 2024

Relevant Coursework: Data Structures | Algorithms | Database Systems | Computer Networks | Object-Oriented Programming | Operating Systems | Machine Learning | Applied Statistics

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML, CSS, R (intermediate); C++ (beginner)

Frameworks & Libraries: React, Spring Boot, Django, Mockito, Tailwind CSS, MUI, Pandas, Numpy, Sklearn

Cloud Computing: AWS EC2, S3, CDK, Fargate, ECS, ELB

Tools: Git, GitHub, GitLab, VS Code, IntelliJ, Jupyter Notebook, Postman, Maven, npm, Tableau, Jira (Agile), Excel

EXPERIENCE

Goldman Sachs

Dallas, TX

Software Engineer Intern

June 2023 – August 2023

- Technologies: AWS Fargate, ECS, ELB, CDK; Java, Spring Boot (Backend); React (Frontend); Docker, GitLab
- Refactored 40% of the codebase** to handle external communications upon migration to cloud, including rewriting the database connection layer, transitioning to OAuth2 authentication protocol, upgrading Java/Spring Boot version, and migrating 2+ backend features to the client side to achieve separation of concerns
- Containerized services using Docker and ensured end-to-end automation of software deployment through the development of CI/CD pipelines
- Developed cloud infrastructure with AWS Fargate, ELB, and CDK, an IaC tool, and provisioned communications between cloud services and on-premise services
- Results: **reduced the infrastructure cost by 70%** and **increased unit test coverage by 15%**

Office of Finance, Denison University

Granville, OH

Financial Analyst Intern

August 2021 – May 2023

- Technologies: Python, Tableau, Excel
- Efficiently extracted data from different sources through Google Drive API integration, performed data wrangling using Python and **built 5+ automated dashboards** on Tableau
- Saved \$6,000 in rental costs** by optimizing the number of rental vehicles through statistical analysis on historical usage data
- Understood the business needs, automated manual workflows, and clearly communicated technical solutions and analysis findings to the CFO and other non-technical audiences

PROJECTS

Denison Social Full Stack Social Network Web Application | [GitHub](#)

- Built a REST API using Django to allow Denison students to authenticate through JWT, create posts, react, comment, view and edit profiles
- Integrated the REST API with PostgreSQL database and an interface built with React and React Bootstrap
- Deployed the web app on AWS with AWS EC2 and AWS S3, and automated the deployment with Docker and GitHub Actions

Movie Scripts Sentiment Analysis Project | [GitHub](#)

- Extracted 600+ movie scripts** from IMSDb by building a web scraper using BeautifulSoup
- Achieved 86.6% accuracy score** after implementing text processing techniques using NLTK and performing sentiment analysis using VADER and TextBlob
- Reduced the training time by 90%** after training Logistic Regression models with scikit-learn on standardized sentiment scores in comparison with training on TF-IDF scores

Independent Study - Book Classification Project | [GitHub](#)

- Trained neural network models with various architectures and activation functions using Tensorflow
- Implemented modeling techniques such as early stopping, principal component analysis, recursive feature elimination, etc. using scikit-learn