**Jehyeon Lee**

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**EDUCATION**

**Brigham Young University** Dec 2024

*Major: Computer Science - Data Science Emphasis* Provo, UT

* GPA: 3.72.

# LANGUAGE & TECH STACK

- Language: JavaScript, Python, Java, Dart (Flutter), SQL, C++, C, PHP, Bilingual (Korean English)

Tech Stack – React, AWS (DynamoDB, Lambda, SQS, Cognito, Amplify), RDS, Firebase, Android Studio, Node.js, Flutter, Vue.js, MySQL, SQLite, Tkinter, HTML, CSS

# EXPERIENCE

**Hyundai Mobis (Contracted)** Jan 2025 – Dec 2025

*MES Engineer(Manufacturing Execution System) Engineer*  Montgomery, AL

* Managed and maintained factory software systems to ensure seamless production processes and consistent performance.
* Identified and quickly addressed software malfunctions and integration issues, minimizing downtime and ensuring optimal operational flow.
* Worked closely with IT, production, and quality assurance teams to implement system enhancements and align software functionality with manufacturing requirements.

**BYU, Technology Department** Jun 2024 – Dec 2024

*PHP Engineer, Full-Stack Software Developer*  Provo, UT

* Developed and maintained 4+ web applications using PHP, Laravel, MySQL, and JavaScript, including an event management system for tracking student participation.
* Enhanced security by migrating authentication from CAS to SAML, utilizing PHP and Laravel, and implementing role-based access controls.
* Optimized database performance with MySQL and PHPMyAdmin, improving application responsiveness and user experience.

**ROBOFLOW LLC** Sep 2023 – April 2024

*Intern, Software Developer, Full-Stack Software Developer*  Orem, UT

* Developing a React-based website that automatically adds subtitles to videos using machine learning and AWS cloud technology.
* Implemented Login functionality into React base webpage and Chrome extension using AWS Cognito and Amplify.
* Constructed billing functionality powered by Stripe and AWS lambda that automatically stores the user subscription status into RDS.

**BYU Political Science Research Lab (Vote Mandate Research)** May 2023 – Sep 2023

*Research Assistant, Data Engineer & Software Developer*  Provo, UT

* Engineered Python-based pipeline for handling 50000+ vast US election data (1976-2020), producing pivotal variables for nuanced analysis of election mandates by using SQL database and SQL query.
* Developed an intuitive Python Tkinter application following the MVC pattern that empowered researchers to interact seamlessly with intricate datasets.

**BYU AI, Machine Learning, Multi-Agent Systems Lab** May 2022 – May 2023

*Research Assistant, Full-Stack Software Developer* Provo, UT

* Developed a research-purpose game simulating human-political interaction operating collaborative AI.
* Programmed an administrative application of the game with Dart language, allowing administrators to search with filters, download, and remove game history by interacting with the Firebase Database.
* Created Game interface and added 10+ functionalities such as automatic version check, automatic download and update desktop applications, and user’s game name duplication checks by using Flutter.

**Brigham Young University** Sep 2023 – April 2024

*Teaching Assistant, Computer Science (Advanced Algorithms and Problem Solving)* Provo, UT

* Conducted coding interviews with classes of 100+ students to apply algorithms and problem-solving strategies to solve difficult Leetcode problems.
* Taught concepts of various algorithm design concepts such as DP, DFS, Binary Tree, Linked List, etc.

**Brigham Young University** Jan 2022 – April 2022

*Teaching Assistant, Computer Science (cs224, Intro to Computer System)* Provo, UT

* Instructed classes of 200+ students in understanding concepts of computer systems and assembly language.
* Taught concepts of C programming, Typecasting, Assembly Code, and Memory structure.

**AI-Driven Stock Trading System** March 2024 – Present

*Personal Project* Provo, UT

* Developed an AI-powered trading system using Deep Q-Networks (DQN) and Multi-Layer Perceptron (MLP) models for real-time stock trading.
* Built a data pipeline to continuously retrieve and store financial data, enabling ongoing model training and market adaptation using SQL and Python.
* Enhanced trading strategies with real-time AI training and backtesting against historical data.