

Yebon Byun

📍 Oakland, CA | ✉ byb620@gmail.com | 📞 +1 (510)-725-7740 | 🔗 <http://www.linkedin.com/in/yebon> | 🐙 <https://github.com/Yebon-Byun>

EDUCATION

University of California, Berkeley
Bachelor of Arts, Data Science

Relevant coursework:

The Structure and Interpretation of Computer Programs, Data Structures, Introduction to Software Engineering & Web Development, Introduction to Machine learning, Foundations of Data Science, Principles and Techniques of Data Science, Probability for Data Science, Advanced Linear Algebra

Dec 2025

TECHNICAL SKILLS

Data Technologies: NumPy Pandas Pytorch TensorFlow Spark Airflow Scikit-learn
Programming Languages: Python C C++ Java JavaScript Ruby R
Database: SQL MongoDB
Front-end Technologies: HTML CSS Ajax jQuery React Native Flask
Frameworks & Libraies: Redshift EC2 Matplotlib Node.js EXPO ggplot2 bs4

EXPERIENCE

Modeling of harmful data for the prevention of grooming crimes against minors

Dec 2023 - Mar 2024

NLP Engineer | NaverZ | Pangyo, South Korea

- Classified and summarized datasets in accordance with company policies, deriving statistical values on harmful data using the Character RNN Model.
- Collected and validated over 300,000 instances of harmful NLP data in English for service improvement.

Build Actionable Climate-Smart Proactive Risk Resilience

Sept 2022–May 2023

Data Engineer | Climformatics | Richmond, CA

- Processed meteorological data from NOAA, NASA, and CFS using IBM Watson Studio on IBM Cloud. Utilized Python, Jupyter notebooks, and EDA methods across 36 categories, organized into SQL relational databases for recruitment purposes.

Theoretical Research on Synthetic Data for Machine Learning

Jan 2022–May 2022

Machine Learning Engineer | National Security Innovation Network | Berkeley, CA

- Enhanced the performance of an existing codebase by 130% by resolving technical issues with the 3D FRONT/3D FUTURE model's dataset extraction, utilizing Anaconda prompt and problem-solving skills.
- Enhanced a model using GANs and SceneFormer, optimizing synthetic data generation with Savio (UC Berkeley's high-performance computing), achieving a 30% team productivity boost.

Hackathon

Dec 2021– Jan 2022

Participant | LIKELION | Berkeley, CA

- Developed a YouTube-based public playlist service, integrating video search via API, and designing the UI. Enabled server-client communication using Ajax and Flask.
- Created a search bar, button for searching and button for playing music randomly in playlists, using CSS Flexbox layout model and Bootstrap Framework.
- Formed a server by setting up AWS EC2, MongoDB and Filezilla for server communication and database.

Hybrid Mobile App Development (<https://tinyurl.com/dtzvku7a>)

June 2020–June 2021

Mobile App Developer | ACAST | Seoul, South Korea

- Developed boards, buttons reaching certain URL or app by using deep links with React Native package and EXPO.
- Increased customer retention rate to 20% by adding and improving new features and customer service responsiveness.

PROJECT EXPERIENCE

Gitlet | Java

- Developed own local revision control system saving the contents of entire directories of files (commit), restoring a version of one or more files or entire commits (checkout), viewing the history of your backups (log), maintaining related sequences of commits (branch), and merging changes made in one branch into another with serializable objects in Java.

Ants vs. Some bees - Game inspiration from Plants vs Zombies | Python

- Developed an object-oriented paradigm to create super-classes for food cost, health, and place that they currently get each ant required for the game and inherited characteristics of the various ants that appear from the superclass.

Autocorrected Typing Software | Python

- Developed a function in Python to assess text input speed, calculating words per minute and match percentage for a given word, adjusting for case and punctuation.
- Designed a recursive algorithm to evaluate string similarity, calculating minimum character changes needed for typo correction between two strings.

LEADERSHIP EXPERIENCE

Korean American Scientists & Engineers Association | President, External Chair

- Led UC Berkeley's premier Korean STEM club, orchestrating specialized projects for 50 members in science and engineering, coordinating a lecture with Fields Medalist June Huh, and organizing social events.