Jongwon John Lee

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Data Scientist/Analyst & Backend Developer

TECHNICAL SKILLS

Languages - Python: Data Science (6 years - Intermediate), Ruby, Ruby on Rails, Javascript: Web Development (8 years - Expert), Game Development (4 years - Intermediate)
Tools - AWS: Web Server, Cloud Computing (8 years - Intermediate), Unity: Game Development (4 years - Intermediate), Paraview: Visualization, 3D Modeling (1 year - Beginner), Statistics, Data Analysis (4 years - Beginner)

ACADEMIC RESEARCH PROJECTS

Indiana Sales Analysis and Prediction   AUG 2022 — DEC 2022
- ML-based residential property prices prediction investigating housing properties. Leveraged Google Places, Melissa, Niche.com, Stats Indiana Data. XGboost was the best model (MAPE 11.53%). KPIs increased as we leveraged different data sources.

Social Media Community Identification and Analysis   AUG 2022 — DEC 2022
- Collected data from Twitter and explored community detection libraries and tools such as Gephi, NetworkX, Neo4j, Cytoscape.

Study Buddy Robot - Human Robot Interaction   AUG 2022 — DEC 2022
- Arduino-based interactive desktop study buddy robot implementing the Pomodoro technique.

Overview of Human Robot Engagement - Bartender Robots   AUG 2022 — DEC 2022
- Explores the definitions and research methods of engagement in HRI research by comparing three bartender robots.

Systems Analysis and Design for CHRISTEL HOUSE INTERNATIONAL   JAN 2022 — MAY 2022
- Proposing Data Collection Plan, KPI Management, Cost Benefit Analysis, and Implementation Plan for the client.

Oliver Winery Information Systems Research   AUG 2021 — DEC 2021
- Problem Identification and conducting Management Information Systems (MIS) approach to optimize operations for the client.

3D Customer Segmentation Visualization with Paraview   AUG 2021 — DEC 2021
- Performed feature exploration of customer segmentation data using 3D Visualization.

Evaluating Textual Features and Oversampling for Automatic Stance Detection   AUG 2021 — DEC 2021
- Performed Natural Language Processing analysis on Twitter to research stance and sentiment.

TECHNICAL EXPERIENCE

SKKOOLBUS - University Shuttle Bus Tracking Application Development and Team Leader   NOV 2017 — MAR 2019
Sungkyunkwan University   *Seoul, Korea*
- GPS-based, 6k+ Downloads out of 10,000 population, Performed Market Research, Coordination with the University, Full-Stack Development, and Promotion

Internship / Game Platform Business   JUN 2017 — AUG 2017
Smilegate   *Pangyo, Korea*
- Performed Natural Language Processing analysis on Twitter and web scraping on YouTube, Google, and other relevant sources to promote the Gaming Platform called Stove.

Back-end Developer and Team Leader / Course Evaluation and Search Service   OCT 2016 — MAR 2017
Likelion   *Seoul, Korea*
- Performed market research, planning, back-end development, and database management using Ruby on Rails.

EDUCATION

Master of Science in Data Science, *Indiana University Bloomington / Graduated This Term* **3.934 GPA**   DEC 2022
Bachelor of Arts in Economics, Minor in Informatics, *Indiana University Bloomington*   MAY 2020
Bachelor of Arts in Global Economics, *Sungkyunkwan University*   MAY 2020

AWARDS AND RECOGNITION

Omnisian.com / AWS Power User Best 3 / Amazon Web Service Korea - Team Leader   AUG 2017
- Natural Language Processing, Data Visualization, Python, Ruby on Rails

Indie-Film Genie - Audience Prediction / Grand Prize / Sungkyunkwan University - Team Leader   DEC 2016
Nabla Puzzle Game with Unity / Smilegate Game Jam Best 3 / Smilegate   OCT 2016
Tost – English Academy Search Web Service / Likelion Hackathon 5th Place / Likelion - Team Leader   SEP 2016
Analysis on the Effect of Legal Cap on Phone Subsidies / Grand Prize / Sungkyunkwan University - Team Leader   AUG 2016
Forest Fire Early Detection and Suppression Tower with EV3 / Grand Prize, Patent / Sungkyunkwan University   AUG 2016