KEVIN KO

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EDUCATION

University of Washington - Seattle   EXPECTED DEC. 2022

- *BA in Geographic Information Systems (GIS): Data Science*
- *BS in Economics*
- *Minor in Informatics*
  - Cumulative GPA: 3.55, Dean's List

RELEVANT SKILLS

Programming languages & tools
- Java (data structures and algorithms), HTML/CSS, JavaScript, Relational Databases (MSSQL, PostgreSQL), Python , R, GitHub

Relevant coursework:
- Data Structures and Algorithms, Machine-Learning concepts and applications, Core Methods of Data Science, Databases and Data Modeling, Interactive Information Visualization, Econometrics

EXPERIENCES

Undergraduate Teaching Assistant: Foundation Skills for Data Science (INFO201) *September 2021 - present*

- Teach 200+ students about R and lead weekly one-hour discussion sections to 25-30 undergraduates on data collection, storage, analysis, and visualization with R programming
- Familiarize and introduce software development practices of using version control, command-line proficiency
- Host weekly office hours to debug, assist, and guide students through weekly assignments and projects

Full-Stack Student Assistant Developer: A Geospatial Web Platform *March 2021 - present*

- Responsible for the full-stack development of the geospatial platform, funded by the National Science Foundation (NSF), in order to study, investigate, and map out locations in Damron's Travel Guides
- Develop back-end using Node.js, develop the front-end with HTML/CSS and Vanilla Javascript, design and develop a PostgreSQL database, and create RESTful APIs for data retrieval and access
- Develop and test data cleaning methods for existing large datasets for the purpose of increasing the accuracy for automating the geocoding of addresses from Google API & Mapbox API (Python)

ML Predictions on Student Course Completion *July 2020*

- Used Python (*sklearn, NumPy, pandas, matplotlib*) to implement Logistic Regression, Random Tree Classifier, and Decision Tree Classifier on data obtained from edX, created by MIT and Harvard, containing the completion of an online course based on the activity of the student
- Analyzed, tuned hyperparameters, and provided a model analysis by using a ROC curve, looking at true positive rates versus false positive rates to find the best model of the three used
- Obtained an accuracy of 97.189% on 67% of test data (top-10) on the Kaggle classroom competition

LEADERSHIP/ON-CAMPUS ACTIVITIES

Web Developer - Plenum (Undergraduate Geography Journal) *March 2021 - August 2021*

- Developed and revamped the organization's website using HTML, CSS, and JavaScript (Bootstrap, Node.js) that allowed student's publications throughout the quarter to be displayed to different active readers across campus
- Administered and moderated the official Discord channel of the Department of Geography at the University of Washington containing 200+ students

Vice-President - Taiwanese Youth Association of Pacific Northwest (TYAPN) *June 2019 - June 2020*

- Planned two quarterly events involving professional development and assistance (resume workshops, speaker sessions, Q&A discussions) that resulted in around 50 people in attendance each
- Administered the overall recruiting process, from applications to interviewing, of undergraduates willing to join the student organization and participate in the planning and designing of quarterly events