Hoesu Chun

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
Master's in Computer Science — *Aug 2022 – May 2024*
Specialization: Machine Learning — *GPA: 4.0/4.0*

Seoul National University — Seoul, South Korea
Bachelor's in Electrical and Computer Engineering, Bachelor's in Business Administration — *Mar 2013 – Feb 2020*
Summa Cum Laude, 9 Honor/Eminence/Corporate Scholarships — *GPA: 4.0/4.3*

EXPERIENCE

Capital One — Jun 2023 – Aug 2023
Technical Intern — Java, Spring Boot, AWS — *Dallas, TX*
- Collaborated with a team of four to develop a robust back end integration layer retrieving vehicle history from Carfax and creating API endpoints with Spring Boot.
- Successfully designed and implemented a pipeline transferring data from an internal KAFKA source to AWS PostgreSQL RDS, utilizing cron jobs to generate files, and automating file exchange with AWS EventBridge.

Samsung Electronics — Feb 2020 – Jan 2022
Engineer, IT & Mobile Communication Division — *Suwon, South Korea*
- Implemented process automation software in Python, resulting in significant weekly time savings and a reduction in human errors. (Projects: RF Measurement Program, RFcard to Signal Paths, RLC value to SEC Code, Part List)
- Led a team of 4 people to successfully manage the entire SMD process and handle the communication between R&D and factory production, resulting in a flawless outcome.

Georgia Institute of Technology — Aug 2023 – May 2024
Graduate Teaching Assistant — *Atlanta, GA*
- Served as a Data Visualization & Analytics Campus TA for a diverse cohort of over 250 students.
- Conducted regular office hours - effectively addressing student inquiries, and reviewing assignments & quizzes.

Republic of Korea Air Force — Mar 2014 – Mar 2016
Airman with Interpreting & Administrative Specialty — *Cheongju, South Korea*
- Participated as English Teaching Assistant and translated documents between English and Korean.

PROJECTS

X-ray Diagnosis | *Python, JavaScript, HTML/CSS, Bootstrap, Flask, Tensorflow, Docker, Heroku, AWS Lightsail*
- Created a highly accurate X-ray diagnosis full stack web app by implementing an EfficientNet-based classifier at the backend, achieving a 98% accuracy. Incorporated the Grad-CAM technique for enhanced interpretability.

Toxicity Prediction | *JavaScript, HTML/CSS, Tensorflow, Scikit-Learn*
- Developed supervised (RNN, BERT) and unsupervised (DBSCAN) models to identify toxic comments on Wikipedia with an accuracy of 96%.

Video Frame Prediction | *Python, Tensorflow*
- Developed a deep learning model to predict the next 10 image frames on the last 10 frames of two bouncing numerals. Trained an Auto-Encoder for image representation and an LSTM for the sequential pattern.

Twitter Sentiment Analysis | *JavaScript, HTML/CSS, Bootstrap, D3, Spark, Pandas, Tensorflow*
- Conducted sentiment analysis on Ukraine-Russia war tweets using BERT and developed an interactive webpage with visualizations using Bootstrap and D3.

ETF Trading Bot | *Python, Pandas, BeautifulSoup, Selenium, MariaDB*
- Developed an ETF trading bot based on a volatility breakout strategy; earning a return of 15% over 3 months.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, SQL, HTML/CSS
Frameworks/Libraries: Flask, Spring, Spring Boot, Node, Bootstrap, D3.js, BeautifulSoup, Selenium, MariaDB, Tensorflow, Pytorch, Scikit-Learn, Pandas, Numpy, Spark, Asyncio, boto3, Matplotlib, Seaborn
Developer Tools: Git, Docker, Jenkins, AWS, GCP, PyCharm, IntelliJ, Visual Studio, Visual Studio Code
Coursework: Graduate Algorithm, Data Visualization and Analytics, Machine Learning, Deep Learning, Health Informatics, Human-Computer Interact, Model & Simulation, Programming Methodology, etc.
Certifications: GCP Professional Machine Learning Engineer, GCP Professional Data Engineer