Jongwook Whangbo

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WORK EXPERIENCE

Research Assistant | Gachon University | South Korea | May 2023 – September 2023
- Developed and trained deep learning models for segmentation and classification.
- Published two peer-reviewed scientific papers based on the trained models: segmenting sinusitis from CT scans, classifying endometrial cancer from digital pathology slides.

Intern | Naver | South Korea | May 2022 – August 2023
- Organized and maintained IT assets for the company
- Responsible for initializing and testing security and company specific software on newly acquired IT assets

Senior Airman | Republic of Korea Air Force | South Korea | June 2020 – December 2021
- Responsible for maintaining and operating ground vehicles
- Training and mentoring of new recruits

EDUCATION

Bachelor of Science in Computer Science | Wesleyan University | Middletown, CT | 2023
- COMP333: Software Engineering
- COMP360: Information Security and Privacy
- COMP360A: Automated Reasoning
- COMP312: Algorithms and Complexity
- COMP321: Design of Programming Languages
- COMP301: Automata Theory & Formal Languages

PROJECTS

comp333-mobile: A native mobile application based on comp333-MVC   Oct, 2023
- Developed based on a RESTful API, with the backend developed using PHP, and frontend using React-native.
- The same backend was used as comp333-MVC
- Application was published on google play store as closed beta.

comp333-MVC: An improved version of Laravel-demo made into a client-side application   Oct, 2023
- Developed based on a RESTful API, with the backend developed using PHP, and frontend using React.
- The backend is based on the MVC(Model View Controller) architecture.
- Backend deployed on AWS using EC2 Linux server on a docker container.

Laravel-demo: A simple music rating website created using Laravel, a full stack framework for PHP.   Oct, 2023
- Developed using PHP, Javascript, TailwindCSS.

Jwwhangbo.com: Personal website project.   May, 2024
- Developed using Javascript, TailwindCSS in Nextjs.
- Automatically builds frontend elements based on json files
- Integrated SMTP server to handle email sending.

CookGPT: AI-based cooking assistant (work in progress)   Oct, 2024~
- Developed using Nextjs
- Makes use of the openai API, and elasticsearch to recommend recipes and tips based on user's cooking skill, dietary/food preferences, and ingredient availability
- Plan to host on VPS with docker. Will also implement load balancing and CI/CD using traefik and watchtower, respectively.
- Will use Cloudflare for DNS and CDN along with google analytics as 3rd party services.

SKILLS

Programming Languages: Python, C, C#, Javascript, PHP, SML(Standard ML)
Frameworks: nodeJS, expressJS, react, Laravel, TailwindCSS, react-native, Nextjs
Data: MySQL, MongoDB, SQlite
Deployment: Linux server, AWS, Docker

PUBLICATIONS

Predicting Mismatch Repair Deficiency Status in Endometrial Cancer through Multi-Resolution Ensemble Learning in Digital Pathology

Whangbo, J., Lee, Y.S., Kim, Y.J. et al.

Deep Learning-Based Multi-Class Segmentation of the Paranasal Sinuses of Sinusitis Patients Based on Computed Tomographic Images

Whangbo, J., Lee, Y.J. et al.