HAEJUNG KOH PORTFOLIO



Main skills

- C++, Java, Javascript, SQL
- Mathematica, Gromacs, Gaussian 05, Origin, TensorFlow
- Spring Boot, Node.js, Nuxt.js, Three.js, Laravel, pro*C, Adobe flex, FastAPI, Django, Vue.js
- MySQL, Oracle, MongoDB, AWS
- Intellij, Eclipse, Visual Studio Code
- Git, SVN

Repository

https://github.com/MaximHelio

Education

- B.Eng. Computer Engineering
- B.Sc. Chemistry and Nanoscience

Work Experience

- Samsungcard Digital Service dept. SW Engineer
- Shinhan Global dept. SW Engineer/Expatriate
- Sandslab PLC. Web development dept. SW Engineer

Certificates

- Structured Query Language Development
- Engineer Information Processing
- Microsoft Office Master 2010

Interests

- Data analysis
- Recommendation system
- Help others

Mydata Construction Development of Samsung Card Networking Mobile Application, Monimo

https://www.monimo.com/ Senior SW engineer Samsung Card

Skill stack

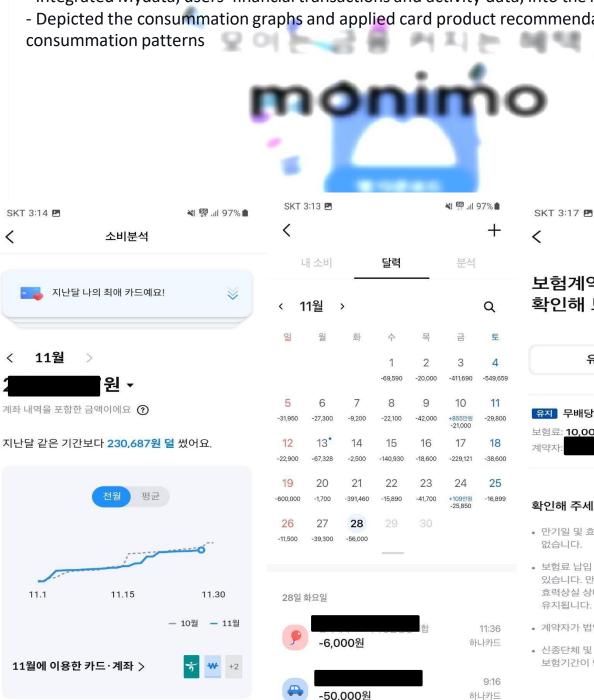
FE: Javascript-Nuxt.js, Vue.js BE: Java-Spring Boot 2.x, Oracle

RNRs

FE/BE

PJT Outline

- Developed the screens and functions in parts of Consummation, Point money, Pension, and Insurance
- Developed real-time search and batch function for representation of consummation in the calendar
- Integrated Mydata, users' financial transactions and activity data, into the mobile applications
- Depicted the consummation graphs and applied card product recommendation according to the



보험계약의 상세내용을 확인해 보세요

유지



계약내용 확인

¥ ∰ ...I 96% **■**

전체

확인해 주세요

- 만기일 및 효력상실일로부터 3년이 지난 계약은 확인할 수 없습니다.
- 보험료 납입 결과 확인까지 3일(영업일 기준) 정도 걸릴 수 있습니다. 만약 미납된 2개월분 보험료를 입금한 경우, 효력상실 상태로 보일 수 있으나 계약은 정상으로
- 계약자가 법인인 단체보험은 보험료를 확인할 수 없습니다.
- 신종단체 및 예금자상해 등 단체보험은 해당 계약의 전체 보험기간이 안내됩니다.

Development of Cyber Security Web Malwares.com

Junior SW Engineer, SandsLab PLC.

PJT Outline

Developed Company solution homepage malwares.com

Published the Front-End user interface

Created an internal API and Private API

Developed payment system

Developed multi-modal functions

Developed a real-time search system

Developed fragmentation search functions (i.e. author = haejung)

Skill stack

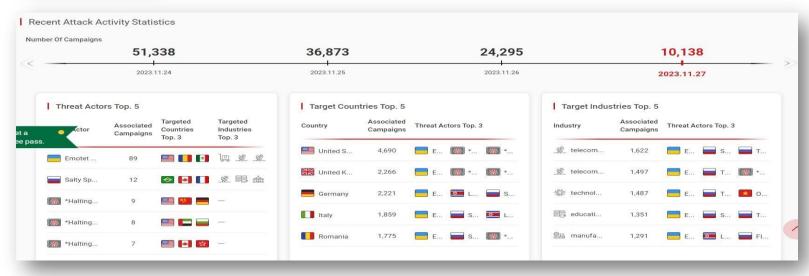
FE: Javascript-Vue.js

BE: Java-Spring Boot, MySQL

RNRs

Front-End





Development of Commercial Web

Freelancer

PJT Outline

- Developed Commercial Webpage hansolmeat.shop
- Published all FE/BE/DB part

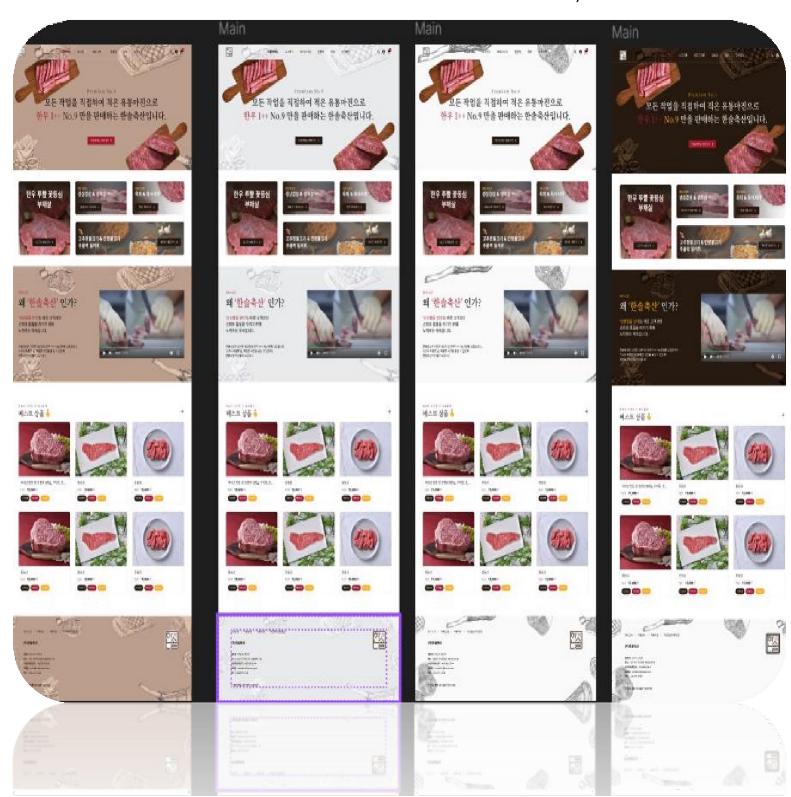
Skill stack

FE: Next.js

BE: Next.js, MySQL, MariaDB

RNRs

PM, PL



Development of Commercial Well



Freelancer

PJT Outline

ial Webpage y onsparenting - Developed Comme

Skill stack Wordpress

윤스 양육코칭

윤스코칭

검사소개

자녀들은 대부분 잘 알지 못하지만, 부모는 자녀들이 자신을 아주 많이 닮았다는 것을 알고 있습니다

습관은 천성이 됩니다. 아이에게는 비평보다 몸소 보여주는 실천이 필요합니다. 자녀교 육의 핵심은 지식이 아니라, 자존감을 길러내는 데 있습니다.



상담신청

공지사항

전문가 Q&A

3월 10, 2024

코칭 공지4

윤스코칭 4월 이벤트

2월 26, 2024

코칭 이야기

아이들이 무엇을 할 수 있는지 확인해 보고 싶다면 주는 것을 멈추어 보면 된다.

더보기

우리의 말보다 우리의 사람됨이 아이에게 훨씬 더 많은 가르침을 줍니다. 따라서 우리는 우리 아이들에게 바라는 바로 그 모습이어야 합니다.

Alex Pandian

Founder / Alex Technology

" 마을의 품에 안기지 못한 아이는 마을의 온기를 느끼기 위해 마을을 불태울 것이다"

이 아프리카 속담은 자녀 양육과 지원의 중요성을 강조합니다. 이 속담은 아이들이 지역 사회로 부터 사랑과 지원을 받지 못하면 관심을 끌기 위해 부정적인 행동을 할 수 있음을 시사합니다

Sarah Loyale

Founder / Doe Corporate

USEFUL LINKS

CONTACTS





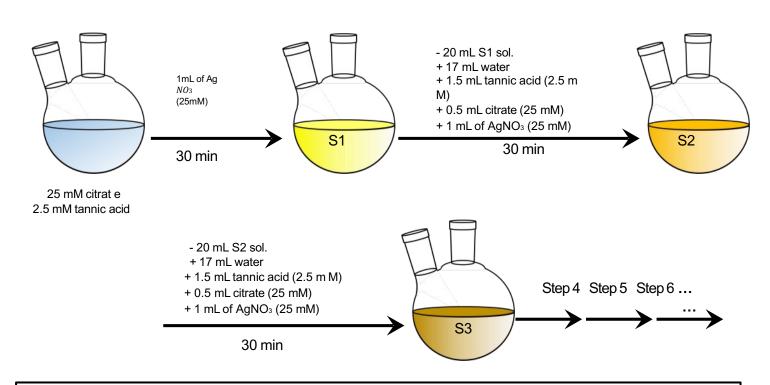




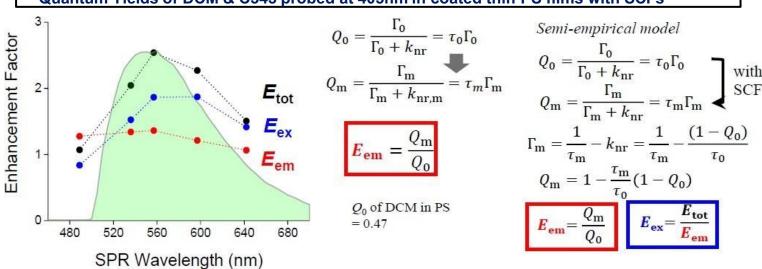
Metal-Enhanced Fluorescence

Femtosecond Spectroscopy Lab. Advisor: Dr. Yoonsoo Pang Gwangju Institute of Science and Technology

Investigated MEF phenomena of DCM & C343 dyes near Ag NPs Analyzed data from TCSPC laser Development of femtosecond time-resolved spectrometer system



Quantum Yields of DCM & C343 probed at 405nm in coated thin PS films with SCFs



| | Lifetime | Quantum | Emission | Total | Excitation |
|---------------|----------|------------------------------|---------------------|----------------------|---------------------|
| | (ns) | Yield, Q _m | Enhancement | Enhancement | Enhancement |
| | | | Factor, E em | Factor, E tot | Factor, E ex |
| DCM Only | 1.59 | 0.47 | • | • | - |
| DCM with SCF1 | 1.19 | 0.60 | 1.28 | 1.07 | 0.84 |
| DCM with SCF2 | 1.11 | 0.63 | 1.34 | 2.04 | 1.53 |
| DCM with SCF3 | 1.09 | 0.64 | 1.36 | 2.54 | 1.87 |
| DCM with SCF4 | 1.30 | 0.57 | 1.21 | 2.27 | 1.87 |
| DCM with SCF5 | 1.50 | 0.50 | 1.06 | 1.51 | 1.41 |

Molecular Dynamics Simulation of PNIPAM

Computational Polymer Physical Chemistry Lab. Advisor: Dr.Jun Soo Kim Ewha Womans University

Skill stack

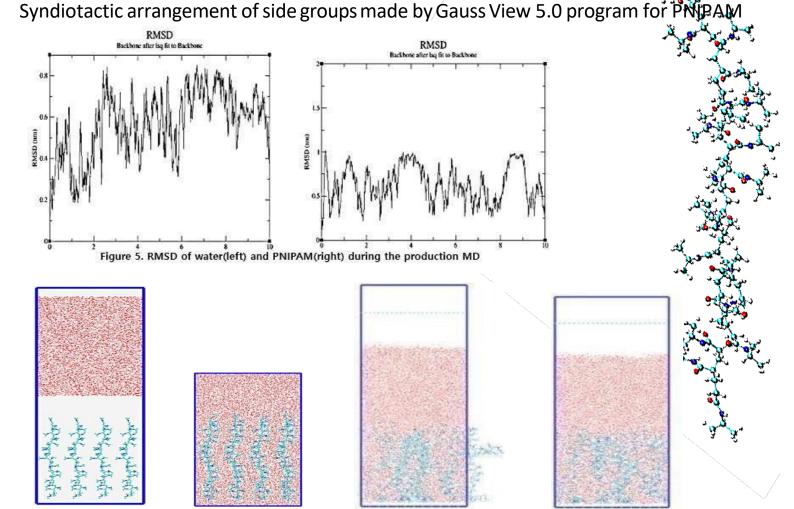
Python, Fortran, Ce ntOs, Gaussian05

Force field: OPLS-AA

Model: Tip4p/2005 for water

PJT Outline

- -MD Simulation
- -Data Analysis using FORTRAN



- Developed PNIPAM NXN multi-chains system and conducted MD simulations
- Analyzed Radius of gyration and intra-chain distances to elucidate collapse-swelling phase transitions
- To advance the research further, development of coarse grained parameters are necessary with reduced degrees of freedom by overcoming time-scale limitations
- Follow-up Study: Interaction of PNIPAM molecules with DNA

Face-Age Detector

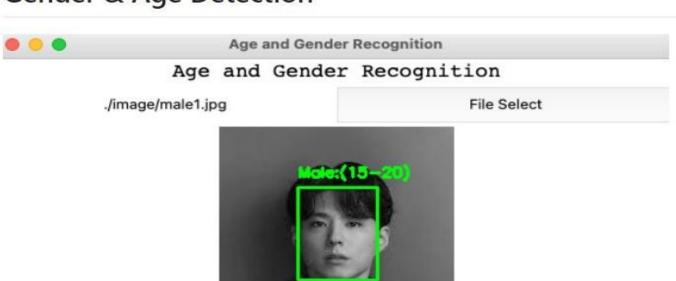
PJT Outline

- Developed face-age detector program using Caffemodel

Skill stack

DNN, caffemodel, PIL, Caffe framework

Gender & Age Detection



Gender: Male 96.59 % Age: (15-20)54.71 % Probability (%) (0-2)0.70 21.21 (4-6)15.29 (8-12)(15-20)54.71 (25 - 32)3.59 (38-43)(48 - 53)0.37 0.66 (60-100)**ML-for-Chem** Gender Probability(%) Male 96.59 https://github.com/MaximHelio/ML-for-Female 3.41 Chem

Personal PJT

BOJ Study Batch Alarm

https://github.com/MaximHelio/BOJ-cote-batch

Skill stack

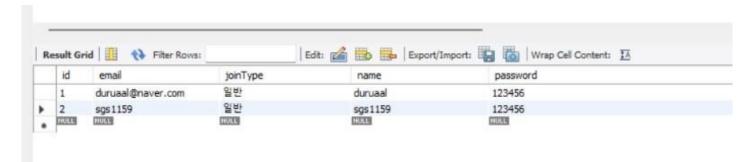
FE: React.js

BE: SpringBoot JPA, Spring Batch

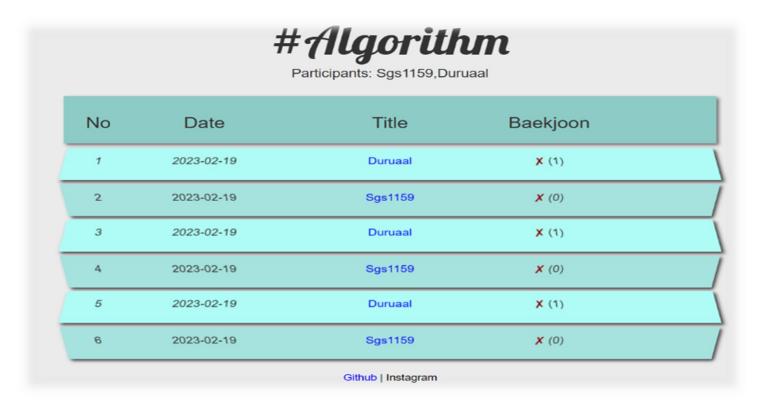
PJT Outline

Every day (MON-SUN) at 00:10 Check the number of problems solved by BOJ User

- 1. Run SBApplication
- 2. Enter the following into the kknni_tb_user table in MySQL client



3. Run at localhost:9040/user/rank > result



Blog Automatic Writing Bot

https://github.com/MaximHelio/btw_newedit

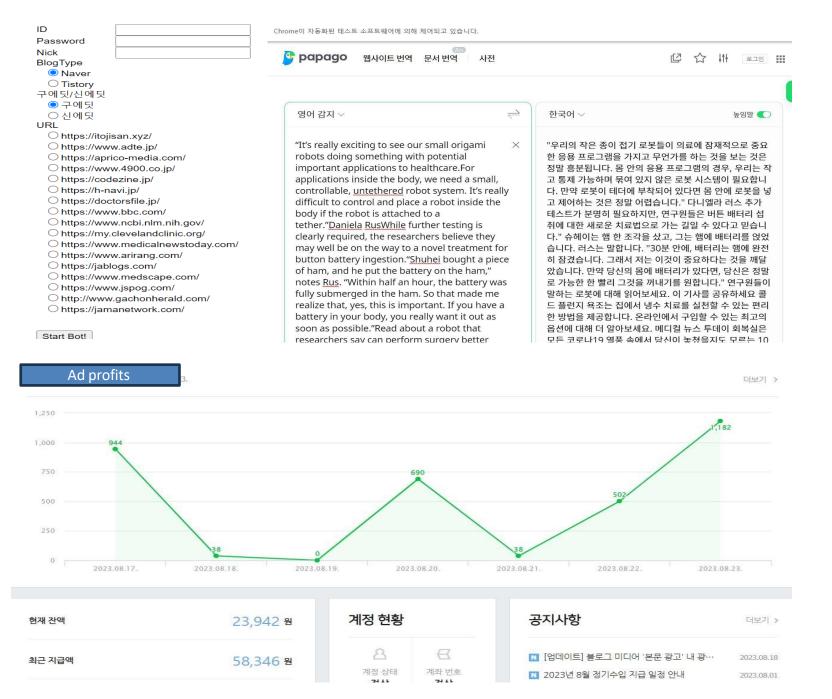
Personal PJT

Skill stack

Node.js Jade

PJT Outline

A bot that automatically writes to a blog when run. Achieved profits.



Rating-based Movie Community Service Web

https://github.com/MaximHelio/SSAFY-Final-pjt-SGMovies

Personal PJT

Skill stack

FE: Vue.js BE: Django

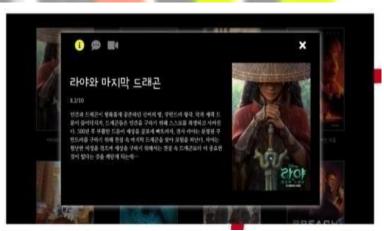
YouTube API, TMDB API, JWT, Sqlite3

PJT Outline

Developed a movie information bulletin board, including comments and recommendation functions

Implemented Search algorithms for content corresponding to keywords users inserted.







- JWT Login
- Applied YouTube API
- Recommendation system