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|  | Seohyeon Lee (Jella Lee)  AI/SW Engineer  *#AI #Computer\_Vision #Style\_Transfer #OCR #Front-end #Web\_Dev #Docker #TypeScript #React #Next.js*  🎂Birth: 7. 24. 1997.  📬Email: sheee724[@gmail.com](mailto:nocte55is@gmail.com)  📱Phone: (+82) 010-3676-0579  GitHub: [*https://github.com/jel-lambda*](https://github.com/jel-lambda) |
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| 📚 EDUCATION |
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| Chung-Ang Univ. Seoul | GPA 3.84 (Bachelor’s degree)  * Visiting student (Carnegie Mellon University) 09/2022 - * AI Master’s degree | GPA 4.16 (Computer Vision&Machine Learning Lab) *09/2021 -* * Computer Science & Engineering Bachelor’s degree  *03/2016 - 08/2021* * Visual Image Media Lab *12/2019 - 11/2020* |

| 📋 SUMMARY |
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| * Be selected as Government-funded visiting student in Carnegie Mellon University. * Study computer vision AI in Computer Vision & Machine Learning Lab(Chung-Ang Univ.). * Started to research computer vision model performance improvement using VAE(Variational Auto-Encoder) recently. * Have been interested in AI and Web development technology both. * Worked for three start-up companies as an AI and SW engineer. * Got used to agile development and start-up company culture. * Regard efficient and accurate development skills as important. * Active and good at communication. |
| 💻 TECHNICAL SKILLS |
| * Languages: JavaScript, TypeScript, Python, Java, C, C++, C#, HTML5/CSS, Shell Scripts * Development: Tensorflow, Pytorch, React, React Native, Next.js, Bootstrap, Mustache, TailwindCSS, emotion-js, Figma, Zeplin, Docker, kubernetes, Nginx, HTTPs, AWS Cloud, NHN Cloud, Unity, Vuforia Engine, OpenCV, Android Studio, Spring Boot, Apache * Databases: PostgreSQL, MySQL * Communication: git, GitKraken, Slack, Jira, Trello, Notion |
| 👨🏻‍💻 EXPERIENCE |
| Language Education Service For Children Using AI *12/2020 - 01/2022**Tech lead, AI Engineer @HandU* Developed web and mobile service for language education in a start-up company. Managed development schedule and also involved in the planning and investment stage. The AI technology fields for the service are mainly composed of OCR,classification, detection and style transfer.  Technology Stacks:  Python, TypeScript, React Native, Next.js, React, Docker, Nginx, Swagger   * OCR model optimized for kid’s handwriting. * Develop and deploy a website for an OCR model using React,TypeScript, Django and Nginx. (For KYOWON AI Service Innovation Team, 12/2021) * Implement a mobile application for parents using TypeScript and React Native. |
| Outsourcing Matching Platform for Student Developers *03/2021 - 09/2021* *Full-stack Engineer, Dev-Ops, Team Leader @Startus* [*http://realproject.me/*](http://realproject.me/)  Implemented an outsourcing matching service website for student developers. Managed a project schedule by agile methodology and tools as a team leader. Set development environment using docker and implemented the front-end part with designer communicating through figma and zeplin.  Technology Stacks:  JavaScript, React, Redux, TypeScript, Next.js, TailwindCSS, Python, Java, Spring Boot, Gunicorn, Daphne ASGI, PostgreSQL, Redis, pgAdmin, Docker, Nginx, ElasticSearch, AWS Cloud, NHN Cloud   * Docker settings for Nginx, Spring Boot, PostgreSQL, pgAdmin, ElasticSearch and front-end with deployment version and multiple versions of development environments. * Front-end development with TypeScript, Next.js(Server Side Rendering), React Hooks, React Redux and TailwindCSS. * API connection through Axios. * Deploy on AWS EC2 and NHN Cloud with sub and main domains. |
| Silicon Valley Internship Program  *01/2021 - 02/2021* *Full-stack Engineer, Dev-Ops, TeamLeader @HeadstartSV*  Developed a community website for early start-up companies. Managed a project by agile methodology as a team leader. Set development environment using docker and docker compose. Designed a recommendation model using NLP and implemented the front-end part.  Technology Stacks:  React, Redux, TailwindCSS, emotion-js, Docker, Nginx, Python, Django REST Framework, WebSocket, PostgreSQL, pgAdmin, ElasticSearch, Kibana, AWS LightSail, Gensim   * Docker settings for Nginx, Django, PostgreSQL, pgAdmin and front-end with seperated version for development and deployment. * Front-end development with React Hooks, React Redux, TailwindCSS and emotion-js. * API connection through Axios. * Deploy on AWS LightSail.  Payment System For Restaurants Using Qr Code Ordering *01/2020 - 02/2020* *Back-end Engineer @Black Stone*  Developed a payment system in an early start-up company. Learned the workflow and system of start-up companies. Used to cooperative working tools like slack, git and trello, notion as a cooperative developer.  Technology Stacks:  Java, Spring Boot, Apache, Apache Tomcat   * Implement a payment system using KG INICIS PG service. |
| 🤖 PROJECTS |
| Fairness multi modal AI with HCI and Multi Agent approach *09/2022 -* *BaseLine: CLIP(Contrastive Language-Image Pre-Training)*   * To make a contribution to the fairness AI multi modal model we utilize HCI and game theory methodology of Multi Agent Machine Learning.    Technical Paper Session @ ICTC 2022  *09/2022* *Learning to Intrinsic Image Filter for Instagram Filter Removal*   * Propose a two-branch model which performs filter removal task. * Learn an intrinsic filter from the input image using the color palette. * Simple and fast to remove the filter from the input image. * Filter is removed accurately and the structure is maintained.  AIM Workshop and Challenges @ ECCV 2022 *06/2022 - 08/2022* *AIM Challenge on Instagram Filter Removal Rank 7th*   * Used a two-branch model for Instagram Filter Removal task. * Tried various methods and tried to keep the model fast and lightweight. * To make the model robust, input data augmentation and Test-Time data Augmentation(TTA) are used.  Kubernetes Hands-On Lab in Google Cloud *06/2022 - 07/2022* *Kubernetes Google Cloud Learning Path*   * Hands-on practice configuring Docker images, containers, and deploying fully-fledged Kubernetes Engine applications.  Person Search Research using Clustering  *10/2021 - 12/2021* *BaseLine: Person search in videos with one portrait through visual and temporal links (ppcc, ECCV2018)*   * Research the performance improvement without tracklet data since it costs a lot to build Tracklet data. * Using correlations of body features and face features while clustering.  Building AI data for Marine Deposited garbage images *09/2020 - 02/2021**Supervised by NIA(National Information Society Agency).*  * Labeling and inspection for marine Sonar Data to build AI data set.  MR-based Custom Fire Drill Scenario Simulation  *12/2019 - 11/2020* *AR, VR, Unity, Vuforia Engine, C#*  Developed mixed reality fire drill scenario system as a mobile application in Visual Image Media Lab. Also, wrote a paper about it which is published in Journal of Korea Multimedia Society 23.1 (2020).   * Develop mixed reality(AR+VR) using Unity and Vuforia Engine. * Progress sharing presentations for weekly seminars in English. * In the process of applying for patents named “MR-based custom Fire Drill Scenario Simulation”.  Restaurant Recommendation Based On Public Data  *09/2020 - 12/2020* <https://github.com/ThreeHealthyMeals/three-healthy-meals>  *Front-end, Mustache, Bootstrap, JavaScript, CSS, Spring boot, Beautiful Soup*  Developed web service which provides restaurant recommendations based on Covid-19 data and personal health data (activity, body state information, target weight). Get restaurant and nutrition data from public data and web crawling.   * Google map API implementation using JavaScript and Mustache. * Front-end publishing using Bootstrap and CSS. * Data crawling from chrome browser using Beautiful Soup.  📘 CERTIFICATIONS |
| IITP TOPCIT (Test of Practical Competency in IT) Score: 502 (Level 3)  *05/22/2021*  📖 MATHEMATICS |
| * Linear Algebra Undergraduate Course (2017) * Probability and Statistics Undergraduate Course (2017) * Discrete Mathematics Undergraduate Course (2017) * INTRO TO SPEECH PROCESSING graduate course audition (one month review of linear algebra and basic probability) (2019) * Machine Learning Undergraduate Course (Including Linear Algebra and Calculus) (2020) * Machine Learning Project Undergraduate Course (Including Linear Algebra and Calculus) (2020) * machine learning graduate course (including linear algebra and calculus) (2022) * Introductory artificial intelligence graduate course (linear algebra and calculus, including basic probability) (2022) |

| 👩‍🏫 TEACHING & MENTORING |
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| * KIC UC Berkeley Laboratory based on Technology Start-up Team (Korean I-Core)  *06/2021 - 12/2021* * Technical Instructor of Korea Start-up KISED (Android Studio) *08/2021* * SV pre-internship program Technical Mentor *01/2022* * Pre-internship program Technical mentor (Seongnam Youth Foundation) 0*2/2022* * SV pre-internship program Technical Mentor *07/ 2021* * Pre-internship program Technical Mentor (Seongnam Youth Foundation) *06/2021*  🏆 AWARDS |
| * 2021 AI-Hub Artificial intelligence contest: Grand Prize **(Korean Minister of Science and ICT)** * 2021 TOPCIT(Test of Practical Competency in IT): High-ranking Award (Kibwa) * 2020 SW/AI Start-up Idea contest: Grand Prize (Chung-Ang Univ) * 2018 University Broadcasting System Achievement Award (Chung-Ang Univ)   👩🏻‍💻 Personal Statement |
| As a student of Computer Science and AI field, I’m fascinated to solve real world problems by Software development.  Since I think that Image Processing can make remarkable transitions into human life, I am inspired by Computer Vision technology. However, I’ve undertaken not only Computer Vision projects but also various fields of software development, so I could acquire overall knowledge of computer science. So I have been able to do my best and accomplish meaningful things, regardless of working position.  I always try to be an interactive co-worker, reliable leader and good student who loves co-working and researching. Through this, I eventually want to be a person who can help people live a better life with a warm heart and technology. To make a difference, I’ve challenged myself and become a person who doesn’t limit my own potential. I have been thinking that I should see more than I could see in my daily life. It made me visit the CES 2022 in Las Vegas in January. While staying in Las Vegas, I was able to experience various technologies from various people and communicate with them. I realized that there’s lots of things which I should learn and face-to-face experience is the best way.    When I was young, I dreamed of being a producer, because I thought videos like film and drama make a big impact on people’s minds. I believed that my good, intentional products would change the world gradually, and I was good at making moving films. So, I was interested in broadcasting and had studied humanities and journalism. Since I was 14-year-old, I have been working as a video producer for a school broadcasting system for about 8 years.  However, when I was a freshman, I took a basic computing course and realized how computers have changed and improved lots of people’s lives in countless ways. Although I majored in Korean at that time and I put my whole life into humanities, I challenged myself and finally switched my major to Computer Science. It was not easy to study computer science at first, but I had been getting used to overcoming obstacles by broadcasting experiences(a series of unexpected happenings and demanding perfection).  From web/application development to machine learning for computer vision or NLP, I’ve participated in lots of projects such as school projects, lab projects, internships or even my own business projects. I’ve loved my projects and I want to keep going. Now I can’t wait to get into new opportunities at Carnegie Mellon University. |