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LUCAS JOOHAN LEE

Software Engineer

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Pursuing to be a Software Engineer who enjoys exploring various areas in software engineering. Interested in back-end development, application programming, NLP, ML/DL applications, modeling, and data analysis with broad knowledge and skills of computer science and deep understanding of ML/DL.

EDUCATION

Master of Science in Computer Science, *University of Southern California* **Dec 2023(expected)**
Related Course work: Analysis of Algorithms, Database Systems, Web Technologies, Applied NLP
Bachelor of Engineering in Computer Engineering, *Yonsei University, Korea* **Mar 2015 — Feb 2021**

SKILLS

Languages	Python/C(Proficient), Java/C++/C#(Familiar), JSP, JavaScript, SQL, HTML/CSS, Excel VBA
Technologies	Flask, Apache Tomcat, MySQL, Git, AWS, GCP, PyTorch, TensorFlow, RPA

EXPERIENCE

RPA Software Developer **Jul 2020 — Aug 2021**
BSG One Co., Ltd. *Seoul, Korea*

- Developed and maintained automation of tens of business processes that use digital systems such as CRM, WMS, ERP, etc.
- Improved development productivity by developing JSON standard interface for Brity RPA.
- Automated SAP BC/BW server monitoring (for 12 servers of 7 companies) by scraping, processing, and reporting data.
- Led projects successfully end-to-end including designing digital transformation and automation, developing automation, and communicating with stakeholders of projects.
- SKILLS: JavaScript, Brity RPA (Samsung SDS), C#, Selenium, AutomateOne RPA, and VBA

Software Engineer Intern **Jun 2017 — Aug 2017**
Click-Fin Fintech startup *Seoul, Korea*

- Increased efficiency for managing clients by establishing and developing a CRM(Customer Relationship Management) system to handle customers' information, financial items, etc. based on the Web.
- Implemented web pages to register, view, modify, or delete the information of financial consultants and items from CRM system.
- SKILLS: JSP, JavaScript, HTML, CSS, Apache Tomcat, MySQL, Java, and JDBC

Teaching Assistant **Jul 2022 — Jul 2022**
USC Integrated Media Systems Center *Los Angeles, CA*

- Hosted lab sessions and taught students how to implement data structures, A* search, and kNN algorithms and use scikit-learn for Naïve Bayes classifier and MLPRegressor model in the Introduction to Artificial Intelligence course.

PROJECTS

Informative Smart Mirror [Github] [Demo] **Mar 2020 — Jun 2020**

- Developed hardware and software for Smart Mirror which presents time, weather, stock price, e-mailbox, and news.
- Implemented voice recognition function to control smart mirror using Google Assistant API and a makeup transfer experience function using deep learning open source of GAN model.
- SKILLS: Raspberry Pi, node.js, JavaScript, Python, TensorFlow, dlib, and picamera library, GAN

Database Project [Github] **Sep 2019 — Dec 2019**

- Designed a relational database and made a web and database server using Apache Tomcat, MariaDB, and JDBC.
- Developed dynamic webpages to create, view, modify, and delete data of a virtual magic world.
- SKILLS: JSP, HTML, CSS, JavaScript, Apache Tomcat, MariaDB, JDBC

RESEARCH

Named Entity Recognition for Software Engineering **May 2022 — present**
Research Assistant under Professor Tianyi Zhang at Purdue, Professor Muhao Chen at USC

- Collected over 30,000 wiki articles related to software engineering using Wiki data dumps and MediaWiki API and preprocessed them to construct about 1.5M labeled sentences.

AWARDS AND HONORS

3rd prize in USC IMSC SW Pioneer Hackathon	Jul 2022
Received Academic Scholarships for all 8 semesters (Yonsei University)	Mar 2015 — Feb 2021
3rd prize in the Capstone Design Competition (Yonsei University)	Nov 2020