

# Saetbyul Lee

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## WORK EXPERIENCE

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| 10/2020 -<br>01/2022 | <b>Research Programmer</b><br><i>Department of Biomedical Informatics at University of Pittsburgh</i>  | Pittsburgh, PA |
|                      | <ul style="list-style-type: none"><li>Fixed bugs, enhanced functionality on existing websites and web applications using Python, JavaScript, JSON and SQL; Managing features and database consolidation: Data migration between databases</li><li>Designed and developed a responsive website supporting social login service using PHP, SQL, and HTML/CSS</li><li>Performed server migration (RHEL 6.1 to 7.9) and all databases/application upgrades</li></ul>   |                |
| 12/2013 -<br>01/2020 | <b>Information Systems Specialist</b><br><i>Korea Environment Corporation (K-ECO)</i>  | South Korea    |
|                      | <ul style="list-style-type: none"><li>Developed, operated a national asbestos management system designed to minimize asbestos exposure infrastructures using Java</li><li>Collaborated with Ministry of Environment to manage policy and regulations</li><li>Provided data and analytics on the use of asbestos as public information and baseline data for congressional policy making</li><li>Managed configuration and operations of Linux servers(WAS, WEB, DB); Regular evaluation of servers and maintenance of cyber security</li></ul> |                |

## EDUCATION

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| 09/2020 -<br>04/2022 | <b>Master of Science in Information Science</b><br><i>University of Pittsburgh</i>        | Pittsburgh, PA<br>GPA 3.7/4.0 |
| 03/2007 -<br>08/2012 | <b>Bachelor of Science in Computer Engineering</b><br><i>Korea Polytechnic University</i> | South Korea<br>GPA 3.8/4.5    |

## ACADEMIC PROJECT

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| SPRING 2022 | <b>Developed Reviewers Opinion Extraction System using Python</b> <ul style="list-style-type: none"><li>Extracted opinions from restaurant reviews with Stanford coreNLP</li><li>Created queries based on user's input and returned the similar extracted opinions</li></ul>                                  |
| FALL 2021   | <b>Developed Song Search Engine with TF-IDF using Java</b> <ul style="list-style-type: none"><li>Normalized and tokenized lyrics of more than 150,000 songs; removed stopwords from lyrics;</li><li>Created inverted index and developed a search engine of ranked songs based on scores</li></ul>            |
| SPRING 2021 | <b>Designed Algorithm using Java</b> <ul style="list-style-type: none"><li>Implemented Backtracking algorithm for The N-Queens problem(3D)</li><li>Implemented K-means clustering algorithm</li><li>Implemented Dijkstra &amp; Floyd algorithm to find shortest path for complete and sparse graphs</li></ul> |
| SPRING 2021 | <b>Developed E-Commerce Online Store</b> <ul style="list-style-type: none"><li>Designed database and developed e-commerce online store selling winter clothes and accessories using MYSQL, PHP, HTML/CSS</li></ul>  |

## SKILLS & CERTIFICATIONS

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Program Language	Java, Python, SQL, C, PHP, JavaScript, HTML/ CSS		
OS	Linux, Unix, Windows, macOS	Office Software	Word, Excel, Powerpoint
Certifications	Oracle Certified Java Professional (OCJP)		

## ACHIEVEMENTS & AWARDS

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- Certificate of Commendation (2018) presented by the Minister of Ministry of Environment, South Korea
- Certificate of Commendation (2016) presented by the Korea Environment Corporation, South Korea