

## Seongjae Lee

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Education              | <b>POSTECH, Pohang University of Science and Technology</b><br>Major in Convergence IT Engineering Dept.(CiTE) <ul style="list-style-type: none"><li>GPA: 4.01 (AI Intensive Course)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2020.02-                                                               |
| Education              | <b>Innovative Medical Solution Lab Intern</b><br>Advisor: Sungmin Park(POSTECH)<br>Real-Time Arrhythmia Classification System: Lightweight Model on Ultra-Edge Sensor <ul style="list-style-type: none"><li>Real-Time System Design suitable for Biodata</li><li>Edge-device Development using NRF52840 chip.</li><li>Quantization and Light-weight Wavelet-CNN Model Development</li></ul> FPGA-based Edge Computing System for Arrhythmia Detection from Electrocardiogram <ul style="list-style-type: none"><li>Uploaded Simple CNN for Arrhythmia Detection on FPGA board (pynq-Z2)</li><li>Modified DNN to BNN using FINN Framework by Xilinx Research Team</li><li>Data Preprocessing from Lab Developed ECG Sensor for DNN using Pandas, Python</li></ul> | 2021.08-                                                               |
| Experience             | <b>Biofabrication and Translational Medicine Lab Research Assistant</b><br>Advisor: Jinah Jang(POSTECH) <ul style="list-style-type: none"><li>Introduced the New Way of 3D Bio Printing Method with Caramel(Journal Club).</li><li>Analyzed Cardiomyogenesis and Neovascularization Data of Pre-vascularized Stem Cell Patch</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                           | 2020.12-2021.02                                                        |
| Interests and Skills   | <b>Interests</b> <ul style="list-style-type: none"><li>Bio Medical Engineering</li><li>Development of Medical Devices</li></ul> <b>Skills</b> <ul style="list-style-type: none"><li>Korean(Native), English(Full professional proficiency)</li><li>Programming Language: C++, Python, JS</li><li>Open Source: Linux, Bootstrap</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |
| Honors and Scholarship | <b>Honors</b> <ul style="list-style-type: none"><li>National Scholarship of Excellence (Science Eng.) by Korea Scholarship Foundation</li><li>Future Talent Training Scholarship by Korea Foundation For Advanced Studies</li><li>Academic Excellence Scholarship by POSTECH</li><li>Proud Postechian Member (Great Honor) by POSTECH</li><li>Scholarship of ICT Creative Consilience Program by Ministry of Science and ICT, Korea(10m KRW)</li></ul>                                                                                                                                                                                                                                                                                                           | 2022.02-<br>2022.02-<br>2022.02-<br>2021.02-2022.01<br>2020.01-2020.12 |
| Leadership             | <b>CiTE Dept. Student Representative (Head of Student Council)</b> <ul style="list-style-type: none"><li>Modified Curriculum for Freshmen in Dept.</li><li>Restarted and Reorganized Student Activities after COVID-19</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2022.01-2022.12                                                        |
| Experience             | <b>Residential College Advisor</b> <ul style="list-style-type: none"><li>Planning &amp; Management Team for Residential College</li><li>Dormitory Management and Club Activities</li><li>Consulting and Mentoring Student of Dormitory</li><li>Honor of Residential College Advisor Awards(RCAA)</li></ul> <b>Student Mentor</b> <ul style="list-style-type: none"><li>Mentor of Basic Programming (Excellent Mentor Award)</li></ul>                                                                                                                                                                                                                                                                                                                            | 2022.01-2022.12<br><br>2023.08-<br>2021.03-2022.06                     |
| Work                   | <b>Internship at Bagelcode Inc.</b> <ul style="list-style-type: none"><li>Research Assistant in Strategy &amp; Finance Team</li><li>Assistance in Preliminary Listing Review Request</li><li>Introducing Employee Stock Ownership Plan (ESOP)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2021.06-2021.08                                                        |
| Experience             | <b>Scholar Program of Korea Foundation For Advanced Studies</b> <ul style="list-style-type: none"><li>Future Talent Training Program</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022.02-2024.02                                                        |

- Lecture and Talk with Experts, Professors
- SOUL: 1 Year Long Team Project (10m KRW)

**Exchange Student at École Polytechnique Fédérale de Lausanne**

2023.02-2023.07

- Life sciences Dept.
  - Study Abroad Scholarship
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