

성신여자대학교

# Sungshin Women's University Department of Computer Engineering



## Introduction

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In the Department of Computer Engineering, our goal is to cultivate professionals who can lead the digital convergence and the Fourth Industrial Revolution society by building practical skills adaptable to the field, based on the foundational theories of computer science.

## Educational Objectives

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- We cultivate foundational theories and practical skills necessary for deriving standardized solutions to real-world problems and implementing them through software.
- We foster professional competency and analytical skills required for creative adaptation to a variety of rapidly advancing technologies in the ever-evolving field of IT.
- Through collaboration between industry and academia, we nurture practical and skilled female professionals who meet the needs of the industrial sector.

## Qualities of Graduates

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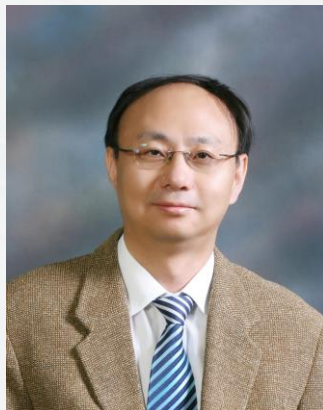
The ideal candidate for the Department of Computer Engineering is a convergent software professional who, based on the foundational theories of computer science, possesses problem-solving skills and practical abilities. This individual is capable of adapting to and leading in the emerging IT industries, becoming a well-rounded expert in software with a blend of theoretical understanding and practical competence.

# Professor



## **Shim, Kwangseob**

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Research Areas | Natural Language Processing, Artificial Intelligence, Information Retrieval |
| Subjects       | Computer Programming, Operating Systems, System Programming                 |
| Office         | Soojung Hall A-806                                                          |
| Tel            | +82(0)2 920 7461                                                            |
| E-mail         | shim@sungshin.ac.kr                                                         |



## **Seo, Dongsu**

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Research Areas | Software Engineering, Secure Software Engineering, Formal Methods  |
| Subjects       | Object-Oriented Design, Software Engineering, Computer Programming |
| Office         | Soojung Hall A-807                                                 |
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## **Hong, Euy Seok**

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Research Areas | Software Quality Prediction, Mining Software Repositories, Software Metrics |
| Subjects       | C++Programming, Data Structure, Software Design Pattern                     |
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# Professor



## **Park, Jiwoong**

Research Areas

Systems Software (Operating Systems, Databases, Distributed Systems)

Subjects

Databases, Server System Construction and Practice, Open Source Software, Capstone Design

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## **Moon, Yong Hyuk**

Research Areas

Efficient AI, Self-Evolving AI

Subjects

Algorithm, Artificial Intelligence, Machine Learning, AI Application, Python Application

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## **Jung, Sun Jin**

Research Areas

Computer Graphics, Character Animation, Artificial Intelligence

Subjects

Computer Graphics, Web Programming Basics, Java Programming

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# Curriculum

\* View All Courses: <https://sugang.sungshin.ac.kr/> (Language : English)

|                                | Software Architect Track                  | Application Software Track                | Cloud Track                             |
|--------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|
| 2 Division                     | Advanced C++ Programming                  | Advanced C++ Programming                  | Computer Network                        |
|                                | Advanced Java Programming                 | Advanced Java Programming                 | Databases                               |
|                                |                                           | Advanced Data Structures                  | Operating Systems                       |
| 3 Division                     | Software Analysis and Design              | Algorithms                                | System Programming                      |
|                                | Server System Construction and Practice   | System Programming                        | Server System Construction and Practice |
|                                | Software Engineering                      | Mobile Programming                        | Open Source Software                    |
|                                |                                           | Open Source Software                      |                                         |
| 4 Division                     | Software Design Pattern                   |                                           | Distributed Systems                     |
|                                |                                           |                                           | Cloud Computing                         |
|                                |                                           |                                           |                                         |
| Career and Related Occupations | Software Design Expert                    | Systems Engineer                          | Systems Engineer                        |
|                                | Software Engineer                         | Application Software Developer            | System Software Developer               |
|                                | Software System Consultant                | System Software Developer                 | Network Engineer                        |
|                                | Computer Engineering Information Educator | Computer Engineering Information Educator | Cloud Architect                         |
|                                |                                           |                                           | Cloud Engineer                          |



**Sungshin Women's University**

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