

# Jae Mahn Surh

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## Summary

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- A computer science major at Williams College, with experience of working on large projects.
- Adaptable to different working environments, and quick to learn different skill sets.
- Passionate about technology and experiencing how it affects the world first-hand.

## Projects

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### Operating System Development (x86)

[github.com/jaes16/OS\\_dev](https://github.com/jaes16/OS_dev)

- A personal passion project to learn OS development and get practice in managing large projects.
- Supports a basic memory manager, terminal use, and a file system roughly based on the FAT file system structure.

### Log Structured File System Development

[github.com/jaes16/FS](https://github.com/jaes16/FS)

- Another personal passion project to learn FS development and resource management.
- Provides most of the basic implementations needed for a file system and has rudimentary garbage collection.

## Awards

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### Excellence in Service / 2021

#### National Health Insurance Service, Korea

Given by the president of the National Health Insurance Service to a social service agent that has worked exceptionally in aid of the NHIS.

### Outstanding Performance in Training / 2019 Republic of Korea, Army

Given by the regimental commander to the top two trainees with the highest performance in bootcamp training.

## Experience

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### Social Service Agent / 2019-2021

#### National Health Insurance Service, Korea

Assisted in customer service, the practice of safety measures for Covid-19, and overall maintenance of the North Seocho Division.

### Computer Science Research Assistant / 2019 Williams College

Used the MATLAB implementation of general regression neural networks to predict the electric use in an all-electric building with an  $R^2$  value of 0.9053.

### Student Technology Consultant / 2017-2019 Williams College

Provided support for students and professors in utilizing the school's computers, servers, and various hardware, while helping the IT with maintenance of systems.

## Education

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GRE: 335/340

### Williams College / 2016 – Major: Computer Science

GPA: 3.5

Operating Systems: A

Algorithm Design and Analysis: A

Storage Systems: A-

### King's Academy, Jordan/ 2012 – 2016

The Masri Award

Highest Honors

## Skills

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- Proficiency in C and Python
- Experience with the Flask framework, web development, web scraping, Java, C++, HTML, Microsoft Office
- Fluency in English and Korean