

# Seungjae Park

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https://github.com/Astro36

## RESEARCH INTERESTS

Machine Learning, Natural Language Processing, Time Series, Quantitative Finance, Asset Pricing, Portfolio Optimization

## EDUCATION

**Inha University**, Incheon, South Korea GPA 4.38/4.5 2019.03 ~ Present  
B.S. in Information and Communication Engineering  
Minor in Global Finance and Banking

## RELEVANT EXPERIENCES

**2023 Data Creator Camp** Excellence Award 2023.09 ~ 2023.12  
Food Image Classification Performance Improvement Competition, hosted by the K-ICT Big Data Center, and organized by the MSIT(Ministry of Science and ICT) and the NIA(National Information Society Agency)

**IBAS** 2022.09 ~ 2023.06  
Inha Univ. Big Data Analysts Society: Machine Learning Paper Review<sup>123</sup>

**Software Maestro 11<sup>th</sup>** 2020.05 ~ 2020.12  
Creative Challenge Project Planning and Development Course, organized by the MSIT(Ministry of Science and ICT) and the IITP(Institute for Information and Communications Technology Planning and Evaluation)  
Developed a Robust Illegal Spam Detection Solution via CNN

**Full-stack Freelance** 2019.09 ~ 2019.12  
INSIGHT: AI-based Mental Healthcare Solution Startup, **[KRW 10million Project]**

## CERTIFICATIONS

**Linux Master, Grade 2**, KAIT(Korea Association for ICT Promotion) 2023.12

**Digital Information Ability Test(DIAT)**, KAIT(Korea Association for ICT Promotion)

- Spread Sheet, Advanced Level 2012.12
- Word Processor, Intermediate Level 2012.04
- Presentation, Advanced Level 2011.09

## PROJECTS

**Self-Balancing Robot**, School Project C++ 2023.05 ~ 2023.06  
2-Wheel Self-Balancing Robot with PID Controller, using ATmega4809 & MPU6050, no library dependencies, *Embedded System Capstone Design: Final Project*

**3D Product Catalog**, School Project C++ 2022.12  
Interactive 3D Product Catalog with OpenGL & Blender, *Computer Graphics Capstone Design: Mini Project*

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<sup>1</sup>ActiveThief: Model Extraction Using Active Learning and Unannotated Public Data & Black-Box Ripper: Copying black-box models using generative evolutionary algorithms

<sup>2</sup>Semantic Image Segmentation with Deep Convolutional Nets and Fully Connected CRFs

<sup>3</sup>A Few Useful Things to Know about Machine Learning

**Quick Pool**, Open Source Rust 2021.11 ~ 2021.12  
 High Performance Async Generic Pool for Rust, implemented by Lock-free Waiter Queue, [Downloads: 1.6K]

**Spree**, Startup Python C++ 2020.07 ~ 2020.12  
 Robust Illegal Spam Detection Solution via CNN, *IITP-2020-SW Maestro training course*

↳ **Kotka**, Open Source Python 2020.07 ~ 2020.08  
 Korean Obfuscation ToolKit for Data Augmentation, *IITP-2020-SW Maestro training course*

**Hyeyum**, School Project Python Javascript 2019.11 ~ 2019.12  
 Language Habit Correction Robot with Google Speech Recognition API, *Creative Design for Information and Communication Engineering: Final Project*

**Shim**, Startup Kotlin Javascript 2019.09 ~ 2020.02  
 Psychological Counselor Matching Platform, *Prography 5th*

**Kodict**, Open Source Rust 2018.11 ~ 2019.02  
 Provides Korean Dictionary Implements and Crawler for Rust, [Downloads: 2.1K]

**KokoaNLP**, Contest Javascript 2018.04 ~ 2018.07  
 Unsupervised Learning Korean Kernel Object Analyzer, *2018 Korea Olympiad in Informatics: Contest Track*

**Touch Music**, Contest Javascript Python Excellence Award 2018.03  
 Easy Music Finder via Word2vec on Song Lyrics, *2018 KAIST Creative Team Coding Challenge*

## SKILLS

### Programming Languages

C++, Java, Kotlin, JavaScript, TypeScript, Python, Rust, Dart

### Platforms & Frameworks

- General: Arduino, Spring, Android, Node.js, Flutter
- AI: TensorFlow, PyTorch
- DevOps: Docker

### Databases

MySQL, PostgreSQL

## EXTRACURRICULAR ACTIVITIES

### Blue Chip Mutual Fund

2023.03 ~ Present

Financial Market Research & Stock Investment Institute in Inha Univ.

- Research Team Leader(2024.01 ~ Present)
- 12<sup>th</sup> UIC(University Student Investment Club) Investment Concert: Company Analysis Report<sup>4</sup>
- Company Analysis Presentation(YouTube)<sup>5,6</sup> & News Article(Incheon Ilbo)<sup>6</sup>

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2019.03 ~ Present

Programming Study Group in Department of Information and Communication Engineering, Inha Univ.

- Group Leader(2023.07 ~ Present)
- Group Tutoring & Study Blog Writing, [Total 180K Views, Monthly 9K Views]

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<sup>4</sup>Corteva, Inc.

<sup>5</sup>Synopex, Inc.

<sup>6</sup>Korea Aerospace Industries, Ltd.

<b>ICESA</b>	2019.03 ~ 2023.06
Student Association for Department of Information and Communication Engineering, Inha Univ.	
<b>Prography 4<sup>th</sup>, 5<sup>th</sup></b>	2019.03 ~ 2020.02
Collaborative IT Project Club: Full-stack Developer Track	
Developed a Psychological Counselor Matching Platform & Music Player App	
<b>WEBS</b>	2019.03 ~ 2019.12
Inha University Startup Support Foundation - Startup Club	

*(Last updated: Jan 2024)*