

# 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 Mar 2019 - Present

B.S. in Information and Communication Engineering | Minor in Global Finance and Banking

- Undergraduate Coursework: Electronic Circuits, Data Structure, Computer Architecture, Operating System, Numerical Analysis, Investments, Financial Derivatives
- Honor student for 7 semesters, **[Average Rank: 1/150]**

## Relevant Experiences

**Blue Chip Mutual Fund** Mar 2023 - Present

Financial Market Research & Stock Investment Institute in Inha Univ.

- Research Team Leader & Fund Manager(Jan 2024 - Present), **[Assets under Management: 38M KRW]**
- Delivered 3 presentations at in-house company analysis seminars(YouTube)
- Published a company analysis report and 2 news articles(Incheon Ilbo)

**Software Maestro 11<sup>th</sup>** May 2020 - Dec 2020

Government-supported Program to Cultivate Creative and Innovative SW Talents, organized by the MSIT(Ministry of Science and ICT) and the IITP(Institute for Information and Communications Technology Planning and Evaluation)

- Developed a solution for detecting illegal spam that corrects Korean spelling errors and improves its performance over time
- Received mentoring on entrepreneurship, programming, and AI
- Ranked 4<sup>th</sup> in a stock price prediction contest held as part of an AI application training program

**Full-stack Freelance** Sep 2019 - Jan 2020

INSIGHT: AI-based Mental Healthcare Solution Startup, **[10M KRW project]**

- Developed an Android app in Kotlin and an API server in Python to power an AI model

## Awards & Honors

**2023 Data Creator Camp**, Excellence Award Sep 2023 - Dec 2023

Big Data Training Hackathon: Food Image Classification Challenge, 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)

**KAIST Creative Team Coding Challenge**, Excellence Award Mar 2018

Middle and High School Student Software Project Contest, hosted by the KAIST and NCSOFT, and organized by the KAIST GIFTED(Global Institute for Talented Education)

## Certifications

**Linux Master, Grade 2**, KAIT(Korea Association for ICT Promotion) Dec 2023

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

- Spread Sheet, Advanced Level Dec 2012
- Word Processor, Intermediate Level Apr 2012
- Presentation, Advanced Level Sep 2011

## Skills

### Programming Languages

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

### Platforms & Frameworks

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

### Databases

MySQL, PostgreSQL

## Extracurricular Activities

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Mar 2019 - Present

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

- Group Leader(Jul 2023 - Mar 2024)
- Authored blog posts about programming for over 4 years, **[Total blog views: 200K, Monthly: 9K]**

### IBAS

Sep 2022 - Jun 2023

Inha Univ. Big Data Analysts Society: Machine Learning Paper Review

### ICESA

Mar 2019 - Jun 2023

Student Association for Department of Information and Communication Engineering, Inha Univ.

### Prography 4<sup>th</sup> - 5<sup>th</sup>

Mar 2019 - Feb 2020

Collaborative IT Project Club: Front-end & Back-end Developer Track

- Android app and API server developer(Full-stack)
- Developed a psychological counselor matching platform & meditation music player app
- Experienced in app server and PG payment API integration

## Projects

### Stock Earnings Calendar, Toy Project Flutter

Jun 2023 - Jul 2023

Stock Prices and Earnings Release Dates Viewer, uploaded to Google Play

### Self-Balancing Robot, School Project C++

May 2023 - Jun 2023

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++

Dec 2022

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

### ICE Market, Toy Project React Spring

Jul 2022 - Aug 2022

Online Flea Market Service for Department of Information and Communication Engineering, Team Project - Role: Set up infrastructure and implemented 1:1 chat API using web sockets

**Quick Pool**, Open Source [Rust](#) Nov 2021 - Dec 2021  
 High Performance Async Generic Pool for Rust, implemented by Lock-free Waiter Queue,  
**[Downloads: 2.1K]**

**Spree**, Startup [Django](#) [TensorFlow](#) [C++](#) Jul 2020 - Dec 2020  
 Robust Illegal Spam Detection Solution via CNN, *IITP-2020-SW Maestro training course*,  
 Team Project - Role: Designed a CNN-based spam message classification model and ported the trained TensorFlow model to C++ code for deployment

↳ **Kotka**, Open Source [Python](#) Jul 2020 - Aug 2020  
 Korean Obfuscation ToolKit for Data Augmentation, *IITP-2020-SW Maestro training course*

**Shim**, Startup [Android](#) [Express.js](#) Sep 2019 - Feb 2020  
 Psychological Counselor Matching Platform, *Prography 5<sup>th</sup>*  
 Team Project - Role: Developed an Android app and an API server, including PG payment API integration

**Care U**, Hackathon [Flutter](#) Jan 2020  
 Shared Scooter Accident Prevention Solution App using Computer Vision, *2020 Super Challenge Hackathon*  
 Team Project - Role: Developed a Flutter app that runs a TensorFlow Lite model

**Hyeyum**, School Project [Express.js](#) [Python](#) Nov 2019 - Dec 2019  
 Language Habit Correction Robot with Google Speech Recognition API, *Creative Design for Information and Communication Engineering: Final Project*

**BraInha**, Hackathon [Android](#) [Express.js](#) Nov 2019  
 On-campus Academic Q&A Platform App, *2019 Inha SW Hackathon*  
 Team Project - Role: Set up infrastructure and developed an API server

**WATCH\_DOCS**, Hackathon [Vue.js](#) [Express.js](#) Aug 2019  
 Business Document Management Service by WaykiChain Smart Contract, *Huobi Korea X WaykiChain Hackathon*  
 Team Project - Role: Developed service web pages with Vue.js

**Kodict**, Open Source [Rust](#) Nov 2018 - Feb 2019  
 Provides Korean Dictionary Implements and Crawler for Rust, **[Downloads: 2.6K]**

**KokoaNLP**, Contest [Node.js](#) Apr 2018 - Jul 2018  
 Unsupervised Learning Korean Kernel Object Analyzer, *2018 Korea Olympiad in Informatics: Contest Track*

**Touch Music**, Contest [Electron](#) [Python](#) Mar 2018  
 Easy Music Finder via Word2vec on Song Lyrics, *2018 KAIST Creative Team Coding Challenge*  
 Team Project - Role: Built a song lyrics database by scraping Melon, analyzed song styles using Word2Vec, and developed a desktop app with Electron

(Last updated: Apr 2024)