

Seungjae Park

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Research Interests

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

Education

Inha University, Incheon, South Korea GPA 4.41/4.5 Mar 2019 - Aug 2024
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
- Participated in the departmental student council as a member (Mar 2019 - Jun 2023)
- Honor student for 8 semesters, **[Average Rank: 2/189]**

Relevant Experiences

Blue Chip Mutual Fund Mar 2023 - Aug 2024
Financial Market Research & Stock Investment Institute in Inha Univ.

- Research Team Leader & Fund Manager (Jan 2024 - Jun 2024), **[Maximum managed assets: 40M KRW]**
- Delivered three presentations at in-house company analysis seminars (YouTube)
- Published a company analysis report and two news articles (Incheon Ilbo)

Software Maestro 11th May 2020 - Dec 2020
Government-supported Program to Cultivate Creative and Innovative SW Talents, operated by the FKII (The Federation of Korean Information Industries)

- 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 4th 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, hosted by the K-ICT Big Data Center

- Solved Korean food image classification problems with ResNet models
- Received NIA (National Information Society Agency) president's award

Certifications

Certified Investment Manager, KOFIA (Korea Financial Investment Association) Jun 2024
Engineer Information Processing, HRDK (Human Resources Development Service of Korea) Jun 2024

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 - Aug 2024

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: 240K, Monthly: 9K]

IBAS

Sep 2022 - Jun 2023

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

Prography 4th - 5th

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

BCMF NAV JavaScript Tailwind CSS

Jan 2024 - Jul 2024

Responsive design web service that calculates and displays daily the net asset value(NAV) and total assets under management(AUM) of Blue Chip Mutual Fund - <https://fund.inhabluechip.com/>

Stock Earnings Calendar Flutter

Jun 2023 - Jul 2023

A calendar app showing stock prices and earnings release dates for companies of interest, uploaded to Google Play

Self-Balancing Robot, Capstone Design C++ Embedded

May 2023 - Jun 2023

2-Wheel self-balancing robot using PID controller, implemented with ATmega4809 and MPU6050 sensors without external libraries, referring to datasheets, *Inha Univ. Embedded System Capstone Design: Final Project*

3D Product Catalog, Capstone Design C++ OpenGL

Dec 2022

Interactive 3D product catalog with OpenGL and Blender(Modeling), *Inha Univ. Computer Graphics Capstone Design: Mini Project*

ICE Market React Spring

Jul 2022 - Aug 2022

Online flea market service for Department of Information and Communication Engineering Team Project - Role: Docker and NGINX setup, 1:1 chat API implementation using Spring 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: 3.8K]

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 text data augmentation, *IITP-2020-SW Maestro training course*

Shim, Startup [Android](#) [Express.js](#) Sep 2019 - Feb 2020
 Psychological counselor matching platform, *Prography 5th*
 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, Capstone Design [Express.js](#) [Python](#) [Embedded](#) Nov 2019 - Dec 2019
 Language habit correction robot with Google Speech Recognition API, *Inha Univ. 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: Docker and NGINX setup, 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: 4.0K]**

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: Jul 2024)