

# Jinsung Kim

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## Projects & Experience

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### DEMYSTIFY DOJI CANDLESTICK | PANDAS, MATPLOTLIB | AUG.18 – AUG.24 2023 | [\[VIEW PROJECT\]](#)

- Employed linear regression, correlation coefficients, and empirical probability to systematically quantify the temporal relationship between stock prices, focusing on the analysis of trends surrounding the Doji candlestick pattern to discern underlying market behaviors.
- Leveraged Python, pandas, and matplotlib to automate the entire data processing pipeline from importing and cleaning to visualizing trends and saving detailed comprehensive reports.

### PORTFOLIO WEBSITE | HTML, CSS, JAVASCRIPT | JUN.10 – JUN.24 2023 | [\[VIEW PROJECT\]](#)

- Strengthened responsive design, and flexbox skills in CSS, and JavaScript DOM manipulation within Web API by creating a creative portfolio website modeled after the MacOS environment, which includes drag & drop.
- Implemented best coding practices including the avoidance of global queries and the use of class manipulation instead of inline styles for improved readability and maintainability.

### MICROSOFT PYGAMES HACKATHON | PYTHON, PYGAME | MAR.20 – APR.17 2023 | [\[VIEW PROJECT\]](#)

- Developed a game with Python, applying both functional programming and object-oriented programming (OOP) to ensure efficient and maintainable code.
- Managed and parsed game data by storing level configurations in an external JSON file, and loading them back into the game, allowing for seamless adjustments to game settings, and improved maintainability.
- Implemented error handling and file checking using try-except blocks to ensure the game runs smoothly and can adapt to missing or improperly formatted data files.
- Utilized a hash map for game elements, allowing for easy modification and fast look-ups.
- Refactored code from 6-month-old project. Focused on code readability and maintainability by implementing a question, 'Will I be able to understand it in 6 months?'

### MENTOR / MENTEE | EXERCISM.ORG | JUN.2022 – CURRENT

- Provided mentoring & feedback to beginner learners, on topics including Python, and JavaScript, helping them improve their coding skills and understanding of specific programming concepts.
- Enhanced critical thinking, problem-solving, and communication skills by working closely with a diverse group of learners, accumulating over 100 contribution points.

## Education

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### UNIVERSITY OF THE PEOPLE

EXPECTED GRADUATION: JUN.2025

*B.S. in Computer Science*

*Cumulative GPA: 3.92/4.0*

Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, Statistics, Introduction to Data Science, Linear Algebra, Calculus

### DATA ANALYTICS CERTIFICATE | GOOGLE | APR.2023 – CURRENT

## Technical Skills

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**Languages:** Python, JavaScript, HTML/CSS, Java, MySQL

**Technologies/Frameworks:** Linux, Unix, Git, GitHub, Django, Sass, Postman, Bootstrap, Mocha, NPM, PIP

I am passionate in software engineering. I firmly believe passion equals consistency. I aim to make a meaningful contribution on GitHub every single day. My objective is to excel as a software engineer who provides solutions to problems.