# Junyoung Bae

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## EDUCATION

**The University of Hong Kong** — **Hong Kong**
*Double Major in BBA Information System & BEng Computer Science | CGPA 3.57/ 4.3* — Sep 2019 – May 2025
- Relevant coursework: Business Analytics, Accounting/Financial Principles, Microeconomics, Management Information System, Programming Technologies and Tools (C++, Python, SQL, Java…), Database Management, Data Science, Network, Cyber Security, Web Development, Mobile App Development, Bioinformatics.

**Purdue University** — **USA Indiana**
*Bachler of Science in Computer Science- One Semester Exchange* — Jan 2024 – May 2024
- Relevant coursework: Operating Systems, Data Structure and Algorithm, Object Oriented Programming.

## WORK EXPERIENCE

**PricewaterhouseCoopers (PwC)** [Client: 'S' Major Semiconductor Foundry (Confidential)] — **South Korea (HwaSeong)**
*Finance Risk & Compliance – Project Machine Learning Research Assistant* — Jun 2024 -Aug 2024
- Extracted, preprocessed, and visualized high-volume wafer production data using SQL, Python, and Excel to support cost prediction modeling.
- Engineered features and trained machine learning models (Random Forest, XGBoost, Elastic Net, etc.) to estimate wafer unit costs across device types.
- Delivered internal presentations summarizing model performance, feature importance, and business insights.

**The Hongkong and Shanghai Banking Limited (HSBC)** — **Hong Kong (Central & Olympics)**
*Commercial Banking – Data and Analytics Team Data Analyst Intern* — Jul 2023 – Dec 2023
- Conducted client service analytics and extracted valuable insights using SQL, Python, and Excel for data visualization.
- Applied NLP techniques on client queries to analyze business banking customer sentiment and enhance service delivery.
- Managed and integrated database systems using Hadoop and GCP, demonstrating proficiency in database management.
- Delivered presentations to internal stakeholders by processing and deriving actionable insights from business banking customer profile data.

**PricewaterhouseCoopers (PwC)** — **Hong Kong (Kwun Tong)**
*Firmwide Corporate Services – Global Technologies Solutions Intern* — Mar 2023 – May 2023
- Collected and organized IT information data, collaborating with project teams to ensure proper software deployment using Linux.
- Conducted in-depth research and data classification on PC management issues, identifying and addressing potential challenges.

**AI TIMES (Artificial Intelligence Focused Online Startup Media)** — **South Korea (Seoul)**
*Intern Journalist* — Dec 2020 – Feb 2021
- Translated, curated, and categorized AI-related international press articles into Korean, providing crucial information access to the media team.
- Conducted interviews with AI industry professors to compile key insights and takeaways regarding AI university courses in South Korea.

## EXTRACURRICULAR ACTIVITIES

**Web Application Project for Custom Cake Shop in Hong Kong** — **Hong Kong**
*Back End Developer* — Jan 2025 – May 2025
- Developed a full-stack web application for a custom cake shop, handling backend architecture using Flask for AI-powered image processing using Google Gemini API.
- Collaborated with frontend developers to integrate RESTful APIs for seamless data exchange and dynamic UI updates.

**L'Oréal Brandstorm Hong Kong 2023 Finalist** — **Hong Kong**
*Finalist in the National Finals out of 237 teams in Hong Kong* — Feb 2023 – Mar 2023
- Developed "WEBrush," an innovative idea that enhances the makeup user experience by integrating NFT (Non-Fungible Tokens) and AR (Augmented Reality) concepts.
- Delivered a persuasive pitch presentation at the L'Oréal Hong Kong headquarters to directors from L'Oréal Hong Kong.

## OTHER INFORMATION

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| **Language** | Korean (Native), English(Native), Chinese HSK 5 (2022) |
| **Technical Skills** | C, C++, Python, Java, Java Script, React, Tableau, R, Microsoft Office (Word, Excel, Power Point) |
| **Personal Interest** | Swimming, Squash, Jogging, Gym |
| **Military Service** | 11th Maneuver Division (Infantry Vehicle Gunner, Mar 2021 – Sep 2022) / (English Interpreter at Incheon International Airport Terminal 1, May- Jul 2022) |