JOSE CRUZ CASTELO BELTRAN
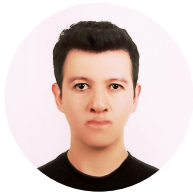
Mechatronics and Computer Engineer

@ jccb.15@gmail.com • ☎ 010-9673-1991 • 📍 Seoul, S. Korea • 🔗 jccb15 • ⌨ jccb15

PROFESSIONAL EXPERIENCE

Machine Learning & Software Engineer
Bionsight Inc.

📅 Oct. 2023 – Feb. 2024   📍 Seoul, S. Korea

- Data analysis on Liquid Chromatography and Mass Spectrometry datasets.
- Development of Deep Learning models to detect protein levels variation.
- Implementation and optimization of data pipelines for AI/ML models.

Systems Engineer
Samsung Mexicana

📅 Jul. 2016 – Sep. 2017   📍 Tijuana, Mexico

- Software development for production processes management.
- Implementation of a PCB detection system to reduce production scrap.
- Data extraction from production machinery for enhanced decision-making.

Engineering Intern
Westrock (MeadWestVaco)

📅 Oct. 2015 – Apr. 2016   📍 Tijuana, Mexico

- Creation of 3D models and engineering drawings for mold injection.
- Standardization of fixtures for quality inspection and testing.

Manufacture Intern
C&D Zodiac Aerospace (Aerodesign de México)

📅 Feb. 2014 – Jul. 2014   📍 Tijuana, Mexico

- Improved production-line workflow with an optimized layout.
- Estimate production capabilities with material and time analysis.

EDUCATION

M.S. in Computer Engineering - 4.06 / 4.50
Pusan National University

📅 Sep. 2020 – Feb. 2023   📍 Busan, S. Korea

- Research in Deep Learning architectures for Computer Vision tasks.
- Conducted image generation and translation projects with GAN and Diffusion Models.

Partial M.S. in Software Engineering
Universidad de Guadalajara

📅 Aug. 2018 – Jun. 2019   📍 Guadalajara, Mexico

- Courses: Software Design, Software Testing, Software Project Management, Data Mining, Object Oriented Programming.

B.S. in Mechatronics Engineering - 92.14 / 100
CETYS Universidad

📅 Aug. 2011 – Feb. 2016   📍 Tijuana, Mexico

- Awarded a full scholarship for academic excellence.
- Exchange student at Sungkyunkwan University (2014 - 2015)

ABOUT ME

As a dedicated engineer, I thrive on embracing new challenges, leveraging my knowledge, and expanding my technical skill set. I excel in solving complex problems through innovative approaches, harnessing modern technologies and applied engineering principles.

SKILLS & ABILITIES

Pytorch • Python • Flutter • Dart • FastAPI • Docker • SQL • GIT • C# • Java • Vue • NodeJs • MongoDB • Pandas • Linux • LaTeX • Agile • CAD

Problem Solving • Logical Thinking • Responsibility • Time Management • Collaboration • Decision Making

LANGUAGES

Spanish ●●●●●
English ●●●●◐
Korean ●●●◐○

EXTRAS

Publications

- **Frequency-Focused GAN Pipeline for Art-like Image Generation.** *Korea Computer Congress.* Jul. 2022.
- **Assessment of Segmentation Impact on Melanoma Classification Using CNN.** *Journal of Computing Science and Engineering.* Sep. 2021.
- **Non-Contact Heart Rate Monitoring from Face Video Utilizing Color Intensity.** *Journal of Multimedia Information System.* Mar. 2021.

Accomplishments

- **Finalist at the "Start-up Idea Contest".** *Hosted by Seoul Metropolitan Government.* Sep. 2022.
- **Global Korea Scholarship Awardee.** *Sponsored by the Korean Government.* Aug. 2019.
- **Judges' Favorite Award.** *Proximity Hackathon.* Aug. 2016.

INTERESTS

A.I. • Generative Models • UI/UX • Mobile Technologies • Blockchain