

# Jiwon Park

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## EDUCATION

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**University College London**

Sep 2023 - Sep 2024

**MSc Computer Graphics, Vision and Imaging | Awarded Distinction**

- **Thesis:** GaussCraft: Precision Editing and Reconstruction with 2D Gaussian Splatting
- **Relevant Coursework:** Machine Learning for Visual Computing, Robot Vision and Navigation

**University of Birmingham**

Sep 2020 - Jun 2023

**BSc Computer Science, First-Class with Honors**

- **Thesis:** Non-Human Primates Pose Estimation using Transformers
- **Relevant Coursework:** Machine Learning & Data Analysis, Computer Vision & Imaging

## PROJECT EXPERIENCE

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**Jiwon's Tech Blog (2025 - )**

- Authored in-depth technical reviews on cutting-edge papers (e.g., SANA, VGGT, 3DGS), translating complex academic concepts for a broader engineering audience.

**GaussCraft: Precision Editing and Reconstruction with 2D Gaussian Splatting (2024)**

- Developed "GaussCraft," a real-time framework integrating 2D Gaussian Splatting with ARAP deformation for interactive scene editing.
- Engineered a novel 2D rigging system by adapting Gaussian Avatar's 3D mechanism to 2DGS, strictly binding splats to mesh tangent planes.

**Passport Control VR Simulator (2024) - Unity + Oculus Quest 2**

- Developed VR training simulation for border control using Unity and C#.
- Simulated document checks and interaction logic for immersive training.

**Non-Human Primates Pose Estimation using Transformers (2023)**

- Adapted a Transformer-based architecture (PETR) for non-human primate pose estimation, utilizing transfer learning from human datasets to effectively address data scarcity.
- Achieved state-of-the-art performance (80.7 mAP) on the Open Monkey Challenge.

**Swaperty (2022) with Django + React**

- Delivered a complete MVP featuring secure JWT authentication and real-time data updates.
- Designed UX for user flow and optimized backend for data handling.

## EXPERIENCE

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**Social Service Agent - Republic of Korea Mandatory Service**

Dec 2024 - Sep 2026

**Ministry of Health and Welfare**

- Fulfilling military service through welfare work supporting vulnerable communities.
- Coordinated with staff and team members to effectively resolve issues and improve service delivery.

## TECHNICAL SKILLS

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Python, C++, C#, Java, Haskell | PyTorch, NumPy, OpenCV | Unity, AWS | Git, React, Django

## SCHOLARSHIPS & LANGUAGES

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- Achievement Admission Scholarship, University of Birmingham
- Languages: Korean (Native), English (Fluent)