CLARISSA GUNAWAN

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WORK EXPERIENCE

Sanctuary AI

Senior Software Engineer **July 2025 – Present**

- Built camera streaming from simulation to speed up camera selection and cut integration time.
- Reduced software build times by 15%, saving 400+ hours of wait time weekly.
- Technologies used: Python, C++, MuJoCo, ROS2

Software Engineering Manager/Lead **January 2023 – July 2025**

- Built a simulation tightly integrated with the robotics software stack, supporting 4 robot variants and enabling new robot variants to be onboarded in under 1 day.
- Developed a multi-robot teleoperation system with multi-VR hardware support. Improved stereo camera latency by 74% (500ms→130ms), enabled Cartesian control, added force-torque feedback, and navigation.
- Co-led 40 engineers across 7 teams to deliver a fully deployable robotic system in 2 months, providing teleoperation, data collection, and ML capabilities, and developing APIs for external partners.
- Implemented operational excellence practices (runbooks, weekly reviews, dashboards), reducing downtime by 90% (10h → 1h per week) and cutting cloud spend by $10K/month.
- Improved developer experience by consolidating 100+ repositories into 10 and introducing containerization for a consistent environment. Reduced provisioning time from 2 weeks to 1 day, and cut build time by 50% and build size by 56%.
- Spearheaded release management by building CI/CD pipelines for nightly builds, enabling daily issue detection versus monthly. Established consistent 2-week release cycles with hotfixes.
- Grew engineering capacity by hiring 6 engineers (100+ interviews) and leading up to 22 engineers across 4 teams (platform, high-level teleoperation, low-level teleoperation, simulation).
- Technologies used: Python, C++, Ansible, Docker, AWS, Azure, CI/CD, ROS2, MuJoCo, Blender

Software Engineer **August 2019 – December 2022**

- Led QA and demo preparation, helping secure a $58.5M Series A.
- Built core perception features into the first cognitive platform, integrating speech-to-text, face recognition, and a knowledge base.
- Built a UI to map robot capabilities to human occupations, informing the company roadmap.
- Technologies used: Python, ROS2, PostgreSQL, React

EDUCATION

BASc Integrated Engineering - University of British Columbia **Graduated May 2019**

- Supermileage Team (Electrical Lead): Built a prototype battery-electric car.
- Medispenser (RESNA Top 8): Developed the scheduling and embedded software for a medication dispenser to increase adherence.