PAOLO GABRIEL

Oakland, CA | thisispaologabriel@gmail.com | pgabriel.gitlab.io

ENGINEER: AI APPLICATIONS & DATA SCIENCE

Accomplished, forward-thinking AI Engineer with 10+-year portfolio successfully driving research, developing ML applications, designing experiments, and onboarding technology. Proficient in analyzing intricate components and leading full product development cycles. Seeking Senior Researcher/Engineer roles to contribute to projects that connect people and data.

- **Big-picture thinker and creative problem-solver**, able to quickly get up to speed on new areas, going in-depth in literature and developing new technical skills with solid project management skills.
- **Ability to communicate and collaborate effectively**, having successfully presented internally at all levels, including whole-company meetings to the CEO and key board members, and effectively managing junior engineers and contractors to generate crucial data and evaluate and on-board new, transformative technologies.
- **Excellent ability to prioritize, multi-task, and pivot** to adapt to startup environments and successfully contribute to multiple technical areas in parallel.
- **Equal ability to perform autonomously,** as a team leader, and as a supportive team player, having managed intern projects and contributed to the development of 4+ junior members; able to cross-train colleagues.

CORE COMPETENCIES

Contractor Management | Project Management | Team Leadership | Mentoring | Relationship Building

Machine learning | Computer vision | Model deployment | Data annotation

Experiment design | System engineering | Research and development

Bash | C++ | Python | SQL | English | Japanese | Tagalog

PROFESSIONAL EXPERIENCE

LOOKDEEP HEALTH, Oakland, CA   2019-Present

CV Engineer → Sr. CV Engineer (2022)

Clinical AI & Patient Monitoring | End-to-End CV/ML Systems | Multi-Modal Research
- Led development of state-of-the-art ML models and CV algorithms for clinical scene understanding
- Built and scaled ML pipelines across edge and cloud platforms, optimizing for real-time hospital settings
- Developed time-series methods to guide virtual sitting attention and reduce fall risk
- Built infrastructure for model governance, dataset curation, and experiment tracking, data synthesis, and annotation
- Published first-author paper on v1 production system, demonstrating real-world performance
- Implemented multi-modal LLM applications for clinical decision support and scene understanding

TRANSLATIONAL NEUROENGINEERING LAB, UC San Diego | Rady Children's Hospital   2013-2019

Graduate Student Researcher

- Designed and deployed custom RGB-D hardware system for continuous multi-modal data collection in clinical environments
- Applied pose tracking and motion analysis using optical flow to quantify natural patient movement
- Built neural signal processing pipelines; demonstrated decoding movement from brainwave frequency bands
- Co-authored IRB protocol for pediatric epilepsy research; contributed to study design, ethics approval, and grant proposals

CAREER NOTE: Consultant AI Training, OUTLIER AI, 2024-Present. Write and review challenging question-answer pairs for training large language models. Design graduate-level STEM problems that SOTA models cannot answer.

RECENT PUBLICATIONS

- **Continuous patient monitoring with AI: real-time analysis of video in hospital care settings,** Frontiers in Imaging, fimag.2025.1547166, Pub Date: 2025-03-09

ACADEMIC BACKGROUND

Ph.D. in Electrical and Computer Engineering, 2019 | UC San Diego

B.S. in Engineering Physics, 2013 | Stanford University