Ludovico Federici

+1 (510) 604-6727 | ludofederici@berkeley.edu | ludovicofederici.com | LinkedIn | GitHub

Inspired by my global perspective and constant striving for balance in life, I am committed to leveraging technology to optimize both mental and physical well-being. I bring to the table a unique blend of technical expertise, a business mindset, and a genuine passion for creating solutions that empower individuals and better society.

EDUCATION

University of California, Berkeley | Berkeley, CA   **Exp. Dec 2024**
B.A. Computer Science, B.A. Cognitive Science, Minor in Data Science (3.973 GPA)
- **Awards and Recognitions**: Nova 111 Italy Student List, Sutardja Center Certificate in Entrepreneurship & Technology, Cal Alumni Association Leadership Scholar (2023/2024), Dean's List (5/5 semesters), Honors To Date
- **Relevant Coursework**: Operating Systems, Efficient Algorithms, Database Management Systems, AI for Healthcare
- **Organizations**: Neurotech@Berkeley, NextGen Consulting at UC Berkeley, Nova Talent, LeadTheFuture

Sevenoaks School | Sevenoaks, United Kingdom   **Aug 2019 − May 2021**
IB Diploma: HL Mathematics, Physics, Economics (45/45 IB, 1570 SAT)

SOFTWARE DEVELOPMENT SKILLS

Programming Languages: Python, Java, C, SQL, SCSS, CSS, HTML, JavaScript, RISC-V, Dart, x86 assembly, MQL.
Libraries & Tools: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, MUSE S, OpenAI API, OpenMP, React Native.

WORK EXPERIENCE

AWEAR Technologies | Berkeley, CA   **Jan 2024 − Present**
Lead Software Engineer
- Leading team of 4 in GUI development using Flutter to achieve real-time visualization of EEG-calculated emotions.
- Building a fine-tuned AI model to personalize AWEAR's service and exploring new EEG metrics to model emotions.

NVIDIA | Berkeley, CA   **Jan 2023 − May 2023**
Project Manager Contract (NextGen Consulting)
- Managed and inspired team of 5 to assist NVIDIA's integration of LLMs & ML to solve inefficiencies of clinical trials.
- Interviewed 30+ industry experts to identify 4 areas of growth & B2B GTM strategies in $1.7B SAM for NeMo LLM.

Neurode | Berkeley, CA   **Jan 2023 − May 2023**
Software Developer (Neurotech@Berkeley)
- Partnered with Australian Startup in the creation of a drug-free solution to ADHD focused on brain stimulation.
- Developed 5 games with Flutter to test focus & eye-tracking algorithm with OpenCV to monitor gaze (1° accuracy).

TECHNICAL PROJECTS

Video Focus with EEG | *MUSE S, Python, OpenAI API, React Native*
- Created a hackathon-winning program that tracks viewer focus to make online lectures more understandable.

CNN Model to Assess Severity of Breast Cancer from Biopsy Images | *Python, scikit-learn, Seaborn*
- Built 10-epoch model (87% testing accuracy) to predict future likelihood of breast cancer from Nightingale Dataset.

Portfolio Website | *SCSS, CSS, HTML, JavaScript*
- Designed and developed a website to showcase my academic, professional, and personal life (at ludovicofederici.com).

Database Management System Implementation | *Java, SQL, NoSQL*
- Optimized DBMS with B+ trees, join algorithms, query optimization, multigranularity locking, and database recovery.

LEADERSHIP EXPERIENCE

NextGen Consulting | Berkeley, CA   **May 2023 − Dec 2023**
Vice President of Client Relations
- Led marketing outreach to 100+ potential clients to identify 5 projects - Intel 2x, Electronic Arts, Palantir, Discover.
- Onboarded 10 Project Managers and overlooked the development of all projects, increasing NGC's earnings by 400%.

OTHER

Languages: English (native), Italian (native), Spanish (fluent), French (fluent), Arabic (Beginner).
Interests: Fitness (Weights & Climbing), Volunteering in DR, Traveling to Asia, Reading Mindset Books, Watching Inter.