

# Ludovico Federici

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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 (Analysis), 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, Pytorch, OpenCV, Git, OpenMP, CuPy, RAPIDS.

## WORK EXPERIENCE

**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).

**Cruuz** | Berkeley, CA May 2022 – Aug. 2022  
*Software Engineering Intern*

- Integrated platform into Google Reserve to supply merchant and availability feeds for processing and booking.
- Co-led development, staging, and production of UI/UX website re-design to increase session length by 30%.

## TECHNICAL PROJECTS

**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](http://ludovicofederici.com)).

**Central Processing Unit (CPU)** | *Logisim*

- Designed 2-stage pipelined functional CPU capable of running RISC-V instructions.

**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.