Ludovico Federici

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EDUCATION

University of California, Berkeley | Berkeley, CA — Aug. 2021 – May 2025
B.A. Computer Science, B.A. Cognitive Science, Minor in Data Science (3.97 GPA)
- **Relevant Coursework**: Efficient Algorithms and Intractable Problems, Database Systems, Computer Architecture, Discrete Mathematics and Probability Theory, Data Structures, AI for Healthcare, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems, Principles & Techniques of Data Science
- **Awards and Recognitions**: Saturdja Center Certificate in Entrepreneurship & Technology, Cal Alumni Association Leadership Scholar (2023/2024), Dean's List (4/4 semesters), Honors To Date (4/4 semesters)

Sevenoaks School | Sevenoaks, United Kingdom — Aug. 2019 – May 2021
IB Diploma: HL Mathematics (Analysis), Physics, Economics (45/45, 1570 SAT)

Stanford University | Stanford, CA — Jun. 2019 – Jul. 2019
Pre-Collegiate Summer Institutes: Business and Entrepreneurship

WORK EXPERIENCE

NVIDIA | Berkeley, CA — Jan. 2023 – May 2023
Project Manager Contract (NextGen Consulting)
- Led team of 5 to assist NVIDIA's integration of large language models & 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.

Neurotech@Berkeley | Berkeley, CA — Aug. 2022 – May 2023
Software Developer
- Assisted Neurode (Australian Startup) in the creation of a drug-free solution to ADHD focused on brain stimulation.
- Developed short games with Flutter to test focus & eye-tracking algorithm with OpenCV to monitor user gaze.

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%.

LEADERSHIP EXPERIENCE

NextGen Consulting | Berkeley, CA — May 2023 – Present
Vice President of Client Relations
- Led marketing outreach to 100+ potential clients to identify 5 project opportunities and establish project scopes.
- Onboarded 10 Project Managers and overlooked the development of all projects, increasing NGC's earnings by 400%

PROJECTS

NGram Explorer | *Java*
- Constructed a browser-based tool using Time Series and TreeMaps to explore word usage in literature.

Scheme Interpreter | *Python*
- Developed an interpreter for the Scheme language, able to recursively evaluate Scheme expressions.

Parallelized Convolutions | *C*
- Wrote a program to handle 2D convolutions and parallelized it using OpenMPI, OpenMP, and SIMD instructions.

Central Processing Unit (CPU) | *Logisim*
- Designed a 2-stage pipelined functional CPU capable of running RISC-V instructions.

Assembly Language Classifier | *RISC-V*
- Adopted assembly code to classify handwritten digits with a simple machine learning algorithm.

TECHNICAL SKILLS & OTHER

Programming Languages: Java, Python, C, SQL, JavaScript, HTML, CSS, RISC-V, Dart, Scheme
Libraries & Tools: Pandas, NumPy, Matplotlib, Seaborn, Pytorch, OpenCV, Git, VS Code, IntelliJ, Logisim
Languages: English (native), Italian (native), Spanish (fluent), French (fluent)
Interests: Fitness, Reading, Volunteering, Travelling, Cooking, Skiing, Soccer, Chess