Connor Duncan connor@connorduncan.xyz

Eager, motivated and analytical mathematician with experience in software development, optimization, and data science. I enjoy automating tedious tasks, and raising the skill floor for front-office software projects.

EDUCATION	
2022–2023	University of Illinois at Chicago
	M.Sc. in Applied Mathematics 3.86/4.0 GPA
2017–2021	University of California, Berkeley
	B.A. in Physics; B.A. in Applied Mathematics 3.366/4.0 GPA
Experience	
2023 –	 INVESCO Quantitative Analyst (Fixed Income ETF Portfolio Management) ◇ Developed on-desk dashboard in Python (Dash/Snowflake/Polars) used for daily portfolio management tasks, including pricing/accounting/holding/risk/index reconciliation, flow optimization, and communication of baskets with third parties. ◇ Planned and implemented improvements to CI and code quality: brought DDL under version control, added static type analysis and testing to critical code, implemented Jinja templating of SQL queries. ◇ Managed ongoing transition of front-office systems from Aladdin to Charles River, requiring complete re-sourcing of all data pulled from Aladdin. ◇ Migrated dataframe libraries from Pandas to Polars (this was an excellent decision).
2022 – 2023	University of Illinois at Chicago
	Teaching Assistant (Algebra & Business Linear Algebra)
SUMMER 2020	NATIONAL RENEWABLE ENERGY LABORATORY SULI Intern Developed React app visualizing projected impact of environmental policy changes in the LA area
2018–2020	UNIVERSITY OF CALIFORNIA, BERKELEY; SLAC Research Assistant, Pyle Group Assisted with installation of Helium Dilution Refrigerator Assisted with Linux server administration (RIP CentOS) and DAQ Dashboard development.
Technical Skills	
PYTHON LINUX	 Polars, SciPy, Flask, Dash, Jinja, threading/multiprocessing, Pydantic, cython. Self-hosted websites using both apache and nginx, as well as a mail server. Daily Arch Linux user since 2018, more comfortable in tmux than Windows.
OTHER TECH	♦ In descending order of expertise: (n)vim, SQL, git, ੴEX, JavaScript, Aladdin, MATLAB, Rust, Bloomberg, Axioma, C/C++, Redis, R, Excel.
/ETC	
Spanish Interests	 ◇ Conversational speaker. ◇ AT WORK: Mixed Integer Programming, Linux, Data Science, CI Improvements (that don't annoy fast-moving quant teams). ◇ AFTER WORK: Piano, Traveling, Strategy Games (e.g. Stellaris),