

Viraj Chhajer

330 De Neve Drive, Los Angeles, CA

virajcz@ucla.edu — github.com/viraj-cz — virajchhajer.com

Education

UCLA - University of California, Los Angeles

Fall 2022 - Present

Bachelor of Science, Computer Engineering

Tech Breadth: Computational Biology and Genomics

Relevant Coursework: CS 32 (Data Structures & OOP), CS 33 (Computer Organization), LS7B (Genetics), MATH 61 (Discrete Math), MATH 33A (Linear Algebra), C&EE 110 (Probability and Statistics), MATH 32A (Multi-variable Calculus)

Skills

Languages: Python, R, NumPyro, Bash, Javascript/Typescript, HTML/CSS, NetLogo, Lisp

Low Level: C, C++, X86-64 ASM (AT&T), OpenMP

Frameworks: PyTorch, TensorFlow/TFP, JAX, Stable Baselines, NumPy, React.js, Node.js, Firebase

Experience

Quantitative Researcher

Nov 2022 - Present

Zaitlen Lab, UCLA

Los Angeles, CA

- Researching uses of PPLs (Probabilistic Programming Languages) for modelling high dimensional genomics data sets and Inference via Monte Carlo Methods (Markov Chain Monte Carlo/Hamiltonian Monte Carlo).
- Other areas of research include applied linear models like GWAS (Genome Wide Association Studies), TWAS (Transcriptome Wide Association Studies) and GCTA (Linear Mixed Model).

Co-founder

Apr 2021 - Jul 2022

Basch Research LLP - Basch.io

Mumbai, India

- Built text-to-human-video generator (synthetic media) and AI info-video creator (LipGAN - Generative Adversarial Network, ObamaNet).
- Achieved over 1 million site impressions, \$2000 in revenue and 1500 users, attracting attention from top VC firms including, Accel, Lightspeed, etc, valuing us at over \$1 million.
- Recruited and managed a team of 6, lead two product development and launch cycles in a span of 8 months.

Software Engineering Intern

Jul 2020 - Aug 2020

Centrex Inc.

New York, NY (remote)

- Worked with the Augmented Reality team to build a prototype for an AR-based live Quiz show for Premios Juventud, a popular Spanish show (IOS-AR Platform, WebAR, Unity Three.js, AR.js)

Honors

National Rank (AIR) 8th

Central Board of Secondary Education, India

I secured 98.40% in All India Secondary School Examination (Class Xth) organized by CBSE (Central Board of Secondary Education), earning me a shared rank of 8th amongst 1.8 million students (AIR - 8th).

National Finalist at Aryabhata Ganit Challenge

Central Board of Secondary Education, India

I was selected among top 100 students in mathematics, across the nation for the final stage of Aryabhata Mathematics Challenge from the Pune division.