



MOHAK JAIN

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EDUCATION

University of California, Berkeley

Graduation: Dec. 2021

B.S. Electrical Engineering & Computer Science (EECS) & B.S. Bioengineering

GPA: 3.8

Bioengineering Coursework: Organic Chemistry, Bioethics, Cell Engineering, Synthetic Biology, ML for Computational Biology

Computer Science Coursework: Data Structures, Computer Architecture, Artificial Intelligence, Advanced Algorithms, Computer Graphics, Machine Learning, Statistics, Parallel Programming

EXPERIENCE

Skills: Python, C, C++, Javascript/Typescript, Java, R, PyTorch, TensorFlow, Pandas, Jupyter, NumPy, Git

Co-Founder & Lead at Berkeley Health Engine (Jan. 2021 – Present)

UC Berkeley-based startup accelerator dedicated to early-stage projects in the healthcare space - readysethealth.io.

- Leading development of a health-tech accelerator for early-stage startups. Cohort I of four startups in progress now!

Software Engineering Intern at Datavant (Jun. – Aug. 2021)

Datavant is a Series B startup dedicated to connecting data across healthcare institutions while protecting patient privacy.

- Built out client-facing dashboard to show status of distributed data using Python and JavaScript/TypeScript (full-stack).
- Participated in company hackathon project on cryptographically retrieving patient data using multi-party computation.

Undergraduate Researcher at Doudna Lab (Jan. 2019 – Jun. 2021)

Nobel Laureate Prof. Jennifer Doudna's lab at UC Berkeley is known for discovering CRISPR/Cas9 and RNA biology research.

- Processed NGS data to identify novel gene editing tools from viral CRISPRs using Python, TensorFlow, & R.
- Previously worked on understanding structure & function of protein RT-Cas1 involved in CRISPR RNA acquisition.

Principal at Phoenix Consulting Group (Feb. 2020 – Present)

UC Berkeley-based consulting group focused on the healthcare industry.

- Consulted and presented research for companies in next-generation sequencing, COVID-19 diagnostics, and more.

Undergraduate Researcher at Goodarzi Lab (Sept. 2020 – May 2021)

The Goodarzi Lab at UCSF uses computational frameworks like machine learning to research genomics and cancer.

- Predicting 3D genome architecture from ATAC-seq data using graph convolutional neural networks and deep learning.

Genome Engineering Intern at enEvolv, Inc. (Jun. – Aug. 2019)

enEvolv was a synthetic biology startup spun out of George Church's lab at Harvard University. Acquired by Zymergen.

- Improved efficiency of Multiplex Automated Genome Engineering in *S. cerevisiae* (yeast) to commercially viable rates.
- Programmed scripts using Python and bioinformatics libraries for experimental design & data analysis.

PROJECTS

Ready, Set, Health! (Jan. 2021 – May 2021)

A demo day event to connect investors to early-stage healthcare startup companies.

- Co-lead a team of analysts in putting on a demo day event with 20+ pitching early-stage startups and 30+ investors.
- The best pitch as decided by panel of judges was awarded a \$25,000 prize in non-dilutive funding.

NumC (Aug. 2020)

Recreation of the popular Python library NumPy using a C-Python interface, with an emphasis on runtime optimization.

- Top 5 fastest ranked solution in the course CS61C, Computer Architecture.
- Written in C and Python. Utilizes parallelism, vector operations through AVX intrinsics, and efficient algorithms for matrix computation. Project description: <https://github.com/mohakjain/numc-Public->

INTERESTS

Professional: Biotech + Healthcare Venture Capital, Computational Bio., Synthetic Biology, Gene Therapy, Gene Editing Tools

For Fun: Reading literature & sci-fi, Music, Pen & paper puzzles, Hip Hop Dance, Art & Design, Psychology