

Gautam Mittal

gautammittal.com | gbm@berkeley.edu | +1 (480) 648-8254

EDUCATION

UC BERKELEY

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

Expected May 2022 | Berkeley, CA
GPA: 3.8 / 4.0

Regents' and Chancellor's Scholar
Accel Scholar

Kleiner Perkins Engineering Fellow
Eta Kappa Nu (EECS Honor Society)
Cal Hacks, UC Jazz, Statistics
Undergraduate Student Association

SKILLS

LANGUAGES

Python • JavaScript • Swift • Java • C
SQL • Scheme • Ruby • RISC-V •
Objective-C

TOOLS

PyTorch • JAX/Flax • TensorFlow
Numpy • Node.js • Flask • Rails • HTML
CSS • React • Processing • AWS • GCP
UNIX • Git

LINKS

GitHub: github.com/gmittal

LinkedIn: linkedin.com/in/mittalgautam

Website: gautammittal.com

COURSEWORK

UNDERGRADUATE

CS61A: Structure & Interpretation of Computer Programs

CS61B: Data Structures

CS61C: Machine Structures

CS70: Discrete Mathematics & Probability

CS170: Efficient Algorithms & Intractable Problems

CS162: Operating Systems (Fall 2020)

CS186: Database Systems (Fall 2020)

CS188: Artificial Intelligence

EECS16A: Linear Algebra, Circuits, & Systems I

EECS16B: Differential Equations, Devices, & Systems II

EECS126: Probability & Random Processes

MATH53: Multivariable Calculus

EXPERIENCE

GOOGLE | Software Engineering Intern, Google Brain

May 2020 – Present | Remote

- Researching energy-based generative models for music generation with Magenta, a research group exploring ML in the creative process
- Designed new methods for sampling from MusicVAE and enforcing long-term structure with JAX/Flax models

RISELAB, UC BERKELEY | Undergraduate Researcher

September 2019 – Present | Berkeley, CA

- Researching deep reinforcement learning and unsupervised learning for database systems with Zongheng Yang under Professor Ion Stoica
- Presented modular research platform for designing learned database query optimizers with deep RL at RISE Retreat (January 2020)

STRIPE | Software Engineering Intern

May 2019 – August 2019 | San Francisco, CA

- Built an end-to-end data export pipeline for Connect, used daily by Lyft, DoorDash, and others to process millions of financial objects
- Refactored export infrastructure to use a concurrent GraphQL resolver to enable API-consistent data, faster exports, and increased security
- Designed and tested data infrastructure using Ruby, Elasticsearch, & MongoDB; worked on Dashboard front-end with React

EDMODO | Machine Learning Intern

June 2017 – August 2017 | San Mateo, CA

- Designed deep learning models and data pipelines with Python, TensorFlow, and Elasticsearch for question recommendation on the world's largest educational social network (100M+ users)

PROJECTS

FEVERBASE | Founding Engineer | feverbase.org

March 2020 – July 2020 | Python, Flask, MongoDB

- An open platform for COVID-related clinical trial data connecting researchers, patients, and the public to relevant information for drug discovery and trial participation; Source code: github.com/feverbase

COPILOT | Executive Director

June 2016 – June 2018 | JavaScript, Node.js, Firebase

- Designed and implemented an online, anonymous peer-to-peer mental health counseling platform; Source code: github.com/projectcopilot

AWARDS

- 2020 Contrary Talent Fellow (inaugural cohort)
- 2019 IEEE Eta Kappa Nu Member (top 25% of Berkeley EECS)
- 2019 Accel Scholar (run by Accel Partners & Berkeley EECS)
- 2019 Kleiner Perkins Engineering Fellow
- 2018 Regents' and Chancellor's Scholarship (top 2% of incoming class)
- 2018 US Marine Corps & Louis Armstrong Jazz Awards
- 2016 MIT Zero Robotics Challenge International Finalist
- 2015 Top 10 at MHacks, PennApps (international hackathons)
- 2015 Apple WWDC Scholarship