

Gautam Mittal

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EDUCATION

UC BERKELEY

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

Expected May 2021 | Berkeley, CA
GPA: 3.81 / 4.0

Regents' and Chancellor's Scholar
Accel Scholar

Eta Kappa Nu (HKN) Candidate

Cal Hacks, UC Jazz, Statistics

Undergraduate Student Association

SKILLS

LANGUAGES

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

TOOLS

React • GraphQL • Node.js • Flask
Rails • Keras • TensorFlow • Jupyter
NumPy • Flow • HTML • CSS
Processing • Chrome Headless • AWS
GCP • UNIX • Git

LINKS

GitHub: github.com/gmittal

LinkedIn: [linkedin.com/in/mittalgautam](https://www.linkedin.com/in/mittalgautam)

Website: gautammittal.com

COURSEWORK

UNDERGRADUATE

CS61A: Structure & Interpretation of Computer Programs

CS61B: Data Structures & Algorithms

CS61C: Machine Structures

CS70: Discrete Mathematics and Probability Theory

CS188: Artificial Intelligence

CS198-082: Machine Learning DeCal

EE16A: Linear Algebra, Devices, & Systems I

EE16B: Differential Equations, Devices, & Systems II

MATH53: Multivariable Calculus

PHYSICS7B: Thermodynamics, Electricity, Magnetism

EXPERIENCE

UC BERKELEY RISE LAB | Undergraduate Researcher

September 2019 – Present | Berkeley, CA

- Working on applications of deep reinforcement learning for database systems with Zongheng Yang under Prof. Ion Stoica.

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.
- Coordinated UX research study to understand user needs and adjusted engineering & product roadmap accordingly.

EDMODO | Machine Learning Intern

June 2017 – August 2017 | San Mateo, CA

- Designed deep learning models with Python, TensorFlow, NLTK, and Pandas to recommend user-generated questions for content engine with 100M+ users.
- Implemented a training & evaluation pipeline and wrote scripts to preprocess and classify noisy signals from Elasticsearch index of world's largest educational social network.
- Designed experiments with seq2seq translation models, ByteNet, and denoising networks for text normalization; reported directly to CTO for AI.

PROJECTS

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
- Managed engineering staff, school-based liaisons, platform volunteers, and legal discussions with local and national mental health experts.

JAZZML | Real-time Computer Jazz Improvisation

August 2016 | Python, TensorFlow, FluidSynth

- Signal processing (FFT) and recurrent neural network (RNN) to generate improvised jazz solos with live accompanist; Source code: github.com/gmittal/jazzml

AWARDS

- 2019 Accel Scholar (run by Accel Partners & Berkeley EECS)
- 2019 Kleiner Perkins Engineering Fellow
- 2018 UC Berkeley Regents' and Chancellor's Scholarship
- 2018 US Marine Corps & Louis Armstrong Jazz Awards
- 2018 Gunn High School Outstanding Student in CS
- 2016 2016 MIT Zero Robotics Challenge ISS Finalist
- 2015 Top 10 & Best Cloud App at PennApps XII Hackathon
- 2015 Apple WWDC Scholarship
- 2015 Top 10 at MHacks V Hackathon