

# Gautam Mittal

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## EDUCATION

### UC BERKELEY

B.S. Electrical Engineering & Computer Science (EECS)  
Expected May 2022 | Berkeley, CA

Regents' and Chancellor's Scholar  
Accel Scholar  
Eta Kappa Nu (EECS Honor Society)  
Cal Hacks, UC Jazz, Statistics  
Undergraduate Student Association

## SKILLS

### LANGUAGES

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

### 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](https://github.com/gmittal)  
LinkedIn: [linkedin.com/in/mittalgautam](https://www.linkedin.com/in/mittalgautam)  
Website: [gautammittal.com](https://gautammittal.com)

## COURSEWORK

### UNDERGRADUATE

CS61A: Structure & Interpretation of Computer Programs  
CS61B: Data Structures & Algorithms  
CS61C: Machine Structures  
CS70: Discrete Mathematics & Probability Theory  
CS170: Efficient Algorithms & Intractable Problems  
CS188: Artificial Intelligence  
CS198-082: Machine Learning DeCal  
EECS16A: Linear Algebra, Circuits, & Systems I  
EECS16B: Differential Equations, Devices, & Systems II  
EECS126: Probability & Random Processes  
MATH53: Multivariable Calculus  
PHYSICS7B: Thermodynamics, Electricity, Magnetism

## EXPERIENCE

### GOOGLE | Software Engineering Intern, Google Brain

May 2020 – August 2020 | Mountain View, CA

- Incoming intern on Magenta, a research group exploring the role of ML as a tool in the creative process, within the Google Brain team

### RISELAB, UC BERKELEY | Undergraduate Researcher

September 2019 – Present | Berkeley, CA

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

## PROJECTS

### FEVERBASE | Engineering Lead | [feverbase.org](https://feverbase.org)

March 2020 – Present | 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](https://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](https://github.com/projectcopilot)

## AWARDS

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 & Best Cloud App at PennApps Hackathon  
2015 Apple WWDC Scholarship  
2015 Top 10 at MHacks Hackathon