# Kathan Gandhi

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## EDUCATION

**UC Berkeley - EECS**                                                                                     Berkeley, CA
*B.S in Electrical Engineering and Computer Science*                    *GPA: 3.87 | Expected Graduation: 2023*

- **Courses**: Data Structures, Computer Architecture, Information Devices & Systems, Structure & Interpretation of Programs, Discrete Math & Probability, Efficient Algorithms, Artificial Intelligence, Microdevices
- **Scholarships**: [Cal Alumni Association](Cal Alumni Association) The Leadership Award

## SKILLS

**Languages:** Java, HTML/CSS, Python, JavaScript, Swift, SQL, C/C#, MATLAB, Scheme, LaTeX
**Frameworks:** AWS, React/React Native, Docker, Snorkel, SciBERT, Arduino, Logisim, VEX Robotics
**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, Jupyter, IntelliJ, Eclipse, Notion, Slack

## EXPERIENCE

**Virtual Tech Instructor**                                                                                          2021
**[ID Tech](ID Tech)**                                                                                          *Frisco, TX*

- Educated >50 students about OOP, AI, and cryptography through coding demos and introspective questions
- Guided students to pursue interests through game projects like Crossy Road and Rock-Paper-Scissors
- Resolved 100+ syntax, runtime, and setup errors on Mac and Windows OS to demonstrate debugging in action

**VP of Research**                                                                                          2021
**[Cloud at California](Cloud at California)**                                                                                          *Berkeley, CA*

- Presented COVID Response case study with a deployed symptoms survey demo at club's research showcase
- Practiced S3, AIM, Lambda, EC2, API Gateway, DynamoDB, etc. through ACloudGuru labs and mini-projects
- Promoted club's research at 2 club fairs and formed diverse team of 20+ through inclusive selection process
- Curated elaborate GitHub repository with 5 AWS implementations to offer examples for new recruits

**Service Committee Officer**                                                                                          2021
**[Eta Kappa Nu [HKN]](Eta Kappa Nu [HKN])**                                                                                          *Berkeley, CA*

- Hosted Student Panel with diverse panelists at EECS Day to promote EECS to high school students as a candidate
- Assisted 5 students with course concepts or practice questions over 3 hours of tutoring before final exams
- Proposed initiatives to form study groups and improve inter-committee collaboration upon election

## PROJECTS

**[EcoDataLab](EcoDataLab)** | *JavaScript, HTML/CSS, SQL, React, Firebase, Git*                                           2021

- Improved carbon footprint API integration for 10+ clients such as the Nature Conservancy
- Revamped codebase to rely on React and NPM alongside API calls to improve package compatibility
- Integrated 3 new features i.e. redesigned pledges, international statistics, and personal footprints

**[EyeNet](EyeNet)** | *Python, Tensorflow, Numpy, Tkinter, Git*                                                     2019/20

- Created algorithm for automated diabetes diagnosis with 80% accuracy when trained on 1000+ retinal images
- Utilized Python's Tensorflow, Keras, and Numpy libraries to build CNN model spanning 1000+ lines of code
- Designed intuitive GUI using Tkinter which displayed prediction based on uploaded images

## RESEARCH

**[Machine Learning: The New Language for Applications](#)**                                                          2019
*International Journal of Artificial Intelligence [Open-Access]*                                         *7 Citations*

- Informed readers about 10+ unsupervised, supervised, and reinforcement learning algorithms
- Offered potential applications and implications to encourage practical implementations of machine learning

**[A Holistic Approach to COVID-19: Prediction to Prevention](#)**                                                          2021
*Turkish Journal of Computer and Mathematics Education*

- Integrated epidemiology, topology, and meteorology to explain emergence of COVID-19
- Reviewed pandemic predictions and scope for IoT in disease control