

Reva Agashe

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EDUCATION

M.S. in Computer Science, Stanford University

Graduation: June 2024

Specialization in Artificial Intelligence

B.S. in EECS, University of California, Berkeley | GPA: 3.98/4.0 |

Graduated: May 2022

Awards: High Honors, Dean's List for the College of Engineering, Regents' and Chancellor's Scholar - top 2% of undergraduates

Programming Skills: Python, Java, MATLAB, C, C++, HTML, CSS, JavaScript, TypeScript, SQL, Scheme

WORK EXPERIENCE

Google | Software Engineering Intern, Google Workspace

Jun. 2022 – Aug. 2022

- Developed an end-to-end feature that proactively detects intent to create a task and creates it in the Chat interface for all platforms, including iOS, Web, and Android
- Parsed all Chat queries using NLP, rendered suggestion messages in the frontend, and integrated Chat with the Tasks backend
- Increased user productivity with intelligent suggestions that connect Workspace users across apps without needing to context switch

UC Berkeley EECS Department | Course Reader

Jan. 2021 – Dec. 2021

- Teaching students enrolled in Discrete Math and Probability Theory by leading group discussion sections of 30+ students
- Responsible for proctoring and grading exams, holding Office Hour sessions, and grading homeworks
- Topics include graph theory, induction, modular arithmetic, public key cryptography, logic, computability, and probability theory

Google | STEP Intern, Google Camera

May 2021 – Aug. 2021

- Built infrastructure to enable the use of machine learning for improving photo quality from user feedback on image datasets
- Developed full-stack applications in C++ and TypeScript to efficiently collect hyperparameter specifications on Motion Blur and Cropping image processing pipelines to train a model for prediction of best edits for a photo

mFluIDx | Software Engineering Intern

Oct. 2019 – Oct. 2020

- Developed software tools for genome sequence analysis to create a device for on-site detection of respiratory diseases
- Found sections of DNA sequences that uniquely identify strains of CoV-SARS-2, Influenza A and B, and Streptococcus

RESEARCH EXPERIENCE

Berkeley Wireless Research Center | Research Intern

Jul. 2020 – May 2022

- Optimized hyperdimensional training and classification algorithms using sensor data fusion for emotion recognition
- Developed vector-feature combination and vector generation methods to reduce memory usage by 78% with <1% accuracy loss
- Created an optimization model using Gaussian Process Regression to replicate continuous hand gestures in a robotic arm

Berkeley Computational Imaging Lab | Research Intern

Jun. 2021 – Dec 2021

- Designed a neural network to reconstruct the 3D refractive index given light sources in a sample and their intensity distributions
- Reduced computation requirements for minimization of light scattering on fluorescence microscopy images of biological tissue

LEADERSHIP EXPERIENCE

Regents' and Chancellor's Scholar Association (RCSA) | Corporate Relations Director

Sep. 2019 – May 2022

- Creating opportunities for 900+ RCSA scholars to connect with industry and academia
- Partnered with Tesla and GoDaddy to organize industry exposure events and develop talent acquisition pipelines

Accenture | Student Leadership Fellow

Jan. 2021 – May 2021

- One of 30 nationwide students selected by Accenture to join a leadership program for Women in Technology
- Training topics included leveraging upcoming technologies like Blockchain and Cloud Computing, working in the consulting industry, and building professional development skills

PUBLICATIONS

- Efficient Emotion Recognition using Hyperdimensional Computing with Combinatorial Channel Encoding and Cellular Automata, Published in Brain Informatics, 2022 ([link](#))
- Mapping of Daily Activities Using sEMG to Estimate Finger Kinematics, Presented at Berkeley Wireless Research Center Research Conference, 2022
- HD Recall of Reactive Behavior through Multi-Modal Sensor Fusion, Presented at Berkeley Wireless Research Center Research Conference, 2020
- Genetic Networks Analysis Elucidates Genes Important in Parkinson's Disease, Presented at 3rd Annual Biomarkers Conference, 2018