

TANUSHREE UNAKAL

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EDUCATION

University of California, Berkeley

Graduation: May 2022

BA Computer Science

GPA: 3.6/4.0

PROFESSIONAL EXPERIENCE

LIHTC Research Group - under Prof. Sandeep Soni, Emory University

Mar '24 - Present

Researcher

Atlanta, USA

- Built an ELT pipeline to extract and clean heterogeneous data to analyze affordable housing applications.
- Developed data models to identify key factors contributing to the success of applications.

Rescale Inc. -Premiere HPC Cloud Computing Platform

Jul '22 - Oct '23

Software Engineer

San Francisco, USA

- Optimized celery tasks for efficient database management increasing the speed of data retrieval by 8x
- Automated the End of Month billing process by caching storage data, saving 3 engineering days per month

Berkeley Innovation Center, Haas School of Business - UC Berkeley's Business School

Sep '19 - May '21

Applications & Website Developer- Smart Villages Project

Berkeley, CA, USA

- Built an inventory website using React to financially empower 1.3 million entrepreneurs in rural India
- Developed an interactive Website using JavaScript for students and professors to Collaborate on Business Challenges.

Beatrice Bean Research Group- GWS Department, UC Berkeley

Sep '19- Mar '20

Research Assistant

Berkeley, CA, USA

- Annotated and worked on developing a software to annotate oral archives of LGBTQ activists using the Google API

RESEARCH & TEACHING EXPERIENCE

Lawrence Berkeley Laboratory - UC Berkeley's Premiere National Research Lab

Aug '20- May '21

Research Assistant (see Github for source code)

Berkeley, CA, USA

- Accessing the DBLP database, using NLP techniques to parse them, using machine learning methods such as LDA for topic modeling, and then ran time-series analysis on them comparing the evolution of HPC/parallel computing publications in comparison to other established disciplines such as Theory and Databases

Data Science Society at Berkeley - UC Berkeley's First Data Science Club

Sept '20- May '22

Lecturer and Teaching Assistant for Info 198

Berkeley, CA, USA

- Lecturer and content creator of a student-led introductory data science course that teaches Machine Learning, Data Modeling, Data Visualization and Data Analysis

LEADERSHIP EXPERIENCE

Center for Education and Learning- Non-Profit Improving Education Access for Girls

Nov '23- Present

Teaching Professional

Remote

- Empowering underprivileged girls in Delhi through innovative English teaching methods to enhance their conversational skills.

PROJECTS

Personal Website - [See GitHub](https://tanushreeUnakal.com)

Javascript, CSS, HTML

Created a fully reactive website using CSS, HTML and Javascript, to showcase my personal projects.

Pintos Operating System - Email for source code

C

Developed an operating system in C; coding in the kernel implementing multi threading, locks and FileSystems

SKILLS

Languages: Java, Python, C++, C, React.js, HTML, CSS, JavaScript, GoLang, SQL, Scheme, RISC-V, OpenMP, MPI

Tools: AWS, Spark, Tensorflow, Pytorch, Keras, NLTK, Selenium, OpenMP, Kubernetes, Django, NLTK, GCC