TANUSHREE UNAKAL

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EDUCATION

University of California, Berkeley   Graduation: May 2022

BA Computer Science   GPA: 3.6/4.0

PROFESSIONAL EXPERIENCE

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
- Designed a new spend classification system within the firm's billing infrastructure, adopted by 200+ clients

Berkeley Innovation Center, Haas School of Business - UC Berkeley's Business School   Sep '19 - May'20

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
- Designed an innovative rainwater harvesting system from precipitation to community utilization, and successfully presented it to Chief Minister Sangma of Meghalaya, India.

RESEARCH & TEACHING EXPERIENCE

Center for Education and Learning- Non-Profit Improving Education Access for Girls   Nov '23- Present

Teaching Professional   *Bengaluru, India*

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

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
- Responsible for grading, teaching, and assisting students through the coursework

LEADERSHIP EXPERIENCE

Community Overcoming Relationship Abuse - Domestic Violence Prevention Organization   Jun '22- Oct '23

Event Committee Volunteer   *San Mateo, CA, USA*

- Managing and organizing community events encouraging public discourse about domestic violence prevention

GenerationFlow - Empower Menstruators in UC Berkeley Community and beyond   Jan '21- May '22

Finance Director & Events Director   *Berkeley, CA, USA*

- Responsible for preparing grant applications, fiscal management and developing cash flow
- Conducted annual conferences to bring awareness to the community about menstruators

Montera Middle School - Middle School in the Oakland School District   Aug '18- Jan '19

Mentor   *Oakland, CA, USA*

- Led a bi-weekly mentorship session for a team of 15 children (aged 12-14) to help them achieve academic and personal success.

SKILLS

Tools: Backend Development: Django; Machine Learning: Spark, Tensorflow, Pytorch, Keras; Data Analytics: NLTK; Web Scraping: Selenium; Parallel Programming: OpenMP, MPI, Kubernetes; Office tools: MSOffice, AWS, SharePoint

Languages: Java, Python, Javascript, C++, C, R, GoLang, HTML, Swift, English, Hindi, Arabic, French