JANANI SRIRAM

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EDUCATION

University of California, Berkeley   **Berkeley, CA**
B.A. Computer Science   *Aug. 2021 – May 2024*
- **GPA:** 3.8/4.0
- **Relevant Coursework:** Data Structures (Python, Java), Discrete Math and Probability, Designing Linear Systems, Introduction to Bioengineering, Introduction to Data Science, Economics of Innovation, Wealth and Poverty (Robert Reich), Full Stack Web Development

PROFESSIONAL EXPERIENCE

Computer Science Mentors   **Berkeley, CA**
Junior Mentor – CS 61B   *Jan. 2022 – Present*
- Teach critical data structures concepts in Java with 5 undergraduate students, prepare pedagogical techniques at meetings with CSM family

Computer Science Course Staff   **Berkeley, CA**
Academic Intern – CS 61B   *Aug. 2021 – Present*
Academic Intern – CS 61A   *Aug. 2021 – Dec. 2021*
- Assist undergraduates with concepts and questions regarding data structures on labs, homework, and projects in Java and Python
- Shadow teaching assistants and support course staff with high volume of students in office hours (6-10 students/hour)

Code for Fun   **Remote**
Coding Instructor   *May 2020 – Present*
- Teach elementary and middle schoolers and innovate challenges with fundamental programming concepts in Scratch, Python, and HTML

Pine Biotech   **Remote**
Bioinformatics Research Intern   *Aug. 2020 – Mar. 2021*
- Investigated host immune responses to SARS-CoV-2 variants, specifically spike protein conformations with models from RCSB PDB
- Developed data analysis and machine learning skills (data cleaning, supervised and unsupervised learning) in Python and R

CLUBS AND ACTIVITIES

UpSync Consulting   **Berkeley, CA**
Technical Consultant, Professional Development   *Feb. 2022 – Present*
- RED x Adobe: working with C and React.js to develop web and cloud infrastructure for RED cinematic cameras
- Develop technological and business solutions for startups, learn critical professional development, networking, and interview strategies

Student Association for Applied Statistics   **Berkeley, CA**
Career Exploration Committee Member   *Feb. 2022 – Present*
- Learn critical data science and machine learning skills in Python (NumPy, Pandas) through workshops and independent projects

Berkeley Economic Review   **Berkeley, CA**
Web Developer   *Feb. 2022 – Present*
- Transition website from Wordpress to Wix with web development team, implement new features to promote user accessibility and interest

iGEM at Berkeley   **Berkeley, CA**
CheRMiT NLP Project Developer   *Sep. 2021 – Present*
- Develop machine learning and natural language processing pipeline to mine cheminformatics data from numerous scientific research papers
- Aim to predict undocumented chemical reactions with high accuracy and low false positive rate

HIGH SCHOOL LEADERSHIP INITIATIVES

EduConnection Tutoring   **San Jose, CA**
Co-Founder, CFO   *Aug. 2020 – Aug. 2021*
- Established nonprofit enabling families to set affordable pricing for equitable private tutoring
- Spearheaded recruitment (20 tutors from over 70 applicants) and fundraisers (raised $550+), managed task delegation among subteams

Ragamalika School of Music   **San Jose, CA**
Vocal Semi-Private Instructor   *Apr. 2019 – Aug. 2021*
- Crafted curriculum for and taught 6 novice students, ages 7-9, across 3 classes at the recommendation of Asha Ramesh, Artistic Director

SKILLS, ACTIVITIES, & INTERESTS

Programming Languages: C, Java, Python (NumPy, Pandas), R (Bioconductor), JavaScript (React.js), HTML, CSS, C++, SQL, Scheme

External Coursework: Genomic Data Science (Johns Hopkins University, Coursera), OmicsLogic Data Science Intensive (Pine Biotech)

Activities: Indian Classical 'Carnatic' Vocal Music for 13+ years (solo, group), Indian Classical 'Bharatanatyam' Dance for 12+ years (group)

Community Service: The Tech Museum at San Jose (Museum Guide), San Jose Public Library (TeensReach Coordinator)

Languages: English (native), Tamil (native), Hindi (professional), French (professional)

Interests: Reading (mystery/speculative fiction), Singing, Writing, Technology, Genetics, Current Affairs, Economics, Geopolitics