

# JANANI SRIRAM

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## EDUCATION

### University of California, Berkeley

Berkeley, CA

B.A. Computer Science, Minors in Data Science and Bioengineering, SCET Certificate in Entrepreneurship & Technology

Aug. 2021 – May 2024

• **GPA:** 3.7/4.0

• **Relevant Coursework:** Computer Architecture (C, RISC-V), Data Structures (Java, Python), Discrete Math and Probability, Full Stack Web Development, Information Devices and Systems, Introduction to Data Science, Introduction to Bioengineering, Economics of Innovation

## PROFESSIONAL EXPERIENCE

### Stanford Health Care

Palo Alto, CA

Business Intelligence Intern – Supply Chain Systems and Analytics, Master Data Management

June 2022 – Sep. 2022

• Develop a ML-based description matching algorithm and a streamlined report intake system using Alteryx, Tableau, and SQL

### Computer Science Mentors

Berkeley, CA

Senior Mentor – CS 61B

Aug. 2022 – Present

Junior Mentor – CS 61B

Jan. 2022 – May 2022

• Teach 5 undergraduate students critical data structures concepts in Java, lead pedagogical instruction at meetings with CSM family

### Computer Science Course Staff

Berkeley, CA

Tutor – CS 61A

Aug. 2022 – Present

• Lead tutoring sessions and office hours for student support, answer student questions on public forum, grade assignments

Academic Intern – CS 61B, CS 61A

Aug. 2021 – Aug. 2022

• Assist undergraduates with data structures and unit testing on labs, homework, and projects in Java and Python (6-10 students/hour)

### Code for Fun

Remote

Coding Instructor

May 2020 – May 2022

• 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, developed skills in supervised and unsupervised learning in Python and R

## PERSONAL PROJECTS

### XGBoost for Healthcare Data

Berkeley, CA

Developer

June 2022 – Present

• Create a decision tree model based on XGBoost targeting improved performance on quantitative healthcare data

### Gitlet

Berkeley, CA

Developer

Nov. 2021 – Dec. 2021

• Designed and implemented a functional version control system based on Git

## CLUBS AND ACTIVITIES

### UpSync Consulting

Berkeley, CA

Technical Consultant, Professional Development

Feb. 2022 – Present

• RED x Adobe: develop application and UI connecting RED cinematic camera to Frame.io cloud using Python, C, React.js, and Qt

• Craft technological and business solutions for startups, learn critical professional development, networking, and interview strategies

### Student Association for Applied Statistics

Berkeley, CA

Insights and Analytics, Career Exploration

Feb. 2022 – Present

• Implement critical machine learning and data science skills in Python (NumPy, Pandas) through workshops and client project

### Berkeley Economic Review

Berkeley, CA

Web Developer

Feb. 2022 – May 2022

• 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 – May 2022

• Develop ML and NLP pipeline to mine cheminformatics data from numerous scientific research papers

• Predict undocumented chemical reactions with 95% accuracy, create more decisive labeling functions for better metrics

## SKILLS, ACTIVITIES, & INTERESTS

**Technical Skills:** C, Java, Python (NumPy, Pandas), SQL, Full Stack, R (Bioconductor), JavaScript (React.js), C++, HTML, CSS, Scheme

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

**Activities:** Indian Classical 'Carnatic' Vocal Music and Semi-Private Instruction (14+ years), Indian Classical 'Bharatanatyam' Dance (13 years)

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

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