

SUNAMI DASGUPTA

Berkeley, CA

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🌐 [My Portfolio Website](#)

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EDUCATION

California State University - Chico

2026

Bachelor of Science, Computer Science

Chico, California

Data Structures & Algorithms, Statistics & Probability, Linear Algebra & Calculus III, ACM - GPA - 4.0 / 4.0

EXPERIENCE

Lawrence Berkeley National Laboratory

05-2023 - Present

Software Engineering Intern

Berkeley, CA

- Developed an **automated data handling processes** using Python, transitioning from static file storage to **dynamic in-memory data handling**, reducing the need for storage **space by 50%** and **decreasing processing power requirements by 60%**, leading to **significant cost savings**.
- Implemented **real-time monitoring system** using Prometheus & Grafana, resulting in a **40% increase in network visibility** and control for **high-performance data transfers**.
- Implemented **Docker containerization** for SENSE applications, **enhancing application isolation** and **reducing deployment inconsistencies by 80%**.

California State University, College of Engineering

08-2022 - Present

Teaching & Lab Assistant

Chico, CA

- Assisted **50+ students** in understanding complex **CS concepts** by developing individualized study plans and resources, boosting comprehension by 15%.
- Provided support to over **100 students** in **troubleshooting installation**, use of **Linux & SSH** connections to **access ecc-linux machines** & configuring environment variables within **the .zsh & bash source file**.

JPMorgan Chase & Co

01-2023 - 03-2023

Software Engineering Intern Program

Remote

- Implemented **JPMC frameworks** and tools to interface with a **real-time stock price data feed**, improving data accuracy by 15%.
- **Visualized stock price data** using Tableau for traders, leading to a increase in decision-making speed.
- Collaborated with senior software engineers to **develop and integrate new modules into the existing platform**, resulting in an enhanced user experience and increased efficiency.

RESEARCH, PUBLICATION & PROJECTS

Quantitative Momentum Strategy with Sentiment Analysis

- Developed a quantitative model to **identify high-potential stocks** based on their historical price trends, using **Regression** and **Principal Component analysis**
- Enhanced the strategy by **integrating sentiment analysis**, utilizing **Naive Bayes algorithms** to process news data from a REST API and generate sentiment scores for each stock.
- Implemented **backtesting** using Python's Pyfolio library to assess the strategy's performance, and used **Sharpe Ratio** and **Drawdown** as key metrics for risk-adjusted returns.

1. Skin Cancer Detection using Image-Processing in Real-Time, IJTSRD, Volume-5, Issue-6, Oct. 2021

2. Detecting Breast Cancer with Logistic Regression Model, IJAEM, Volume-3, Issue-4, Apr 2021.

SKILLS & HONORS

Languages: C, C++, Python, Java, HTML5 / CSS, JavaScript, PHP, TypeScript, Bash Shell Scripting, MySQL.

Technologies/Web Frameworks: React, Node, Mongo, ExpressJS, Tailwind CSS, jQuery, Bootstrap, REST API, Mongoose, Linux/Unix, Docker, Kubernetes, Prometheus, Grafana, SQLite

1. Google Code Jam 2022, Rank: 607 out of 45,000.

2. CodeChef Global Coder 2021, Rank: 9 out of 60,000+.

3. Stanford Hackathon, Runner-Up, Best Sustainability Project 2023 out of 1700+ hackers.

4. Chico State Excellence Scholarship 2022 & 2023, 1 out 1,500+.

5. Linux Foundation Scholar 2022, awarded for most number of Open-Source contribution.