

# SUNAMI DASGUPTA

Berkeley, CA

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🌐 [My Portfolio Website](#)

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## EDUCATION

California State University - Chico

2025

*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 Labs, U.S. Department of Energy

05-2023 - 08-2023

Software Engineering Intern

*Berkeley, CA*

- Implemented **Docker containerization** for SENSE applications, **enhancing** application **isolation** and **reducing** deployment **inconsistencies by 80%**.
- Orchestrated **multi-container deployments** using **Kubernetes**, increasing application availability and **system reliability**, leading to a **40% decrease in system downtime**.
- Integrated data modeling with **Prometheus** for real-time monitoring and alerting of the network services, **improving incident detection speed by 60%**.

California State University, Chico

08-2022 - 05-2023

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**.

Multiprocessing Muggles

05-2022 - 07-2022

Software Engineering Intern

*Remote*

- Developed a **MEAN**(MongoDB, ExpressJS, Angular, Node) based video calling web application to support 10k+ users while maintaining **93% uptime**.
- Utilized **Formly, Jest, & NPM** for the tool's frontend & explored **Java Spring Boot** for the tool's backend.
- Collaborated with design team on **UX/UI** improvements with **Tailwind CSS** and **Bootstrap** which resulted in an increase of **user engagement by 20%**.

## PROJECTS & RESEARCH

Spottr: Parking Lot Detection 📄 | Stanford University Hackathon

02 / 2023

- Contributed to **promoting sustainable transportation** practices by providing a **convenient and efficient solution** to a common problem faced by users and **reducing the time wasted** on circling parking lots.
- Developed a **python** app that utilizes advanced image processing techniques, such as **adaptive thresholding, Gaussian blur, and dilation**, to accurately detect parking spot occupancy in real-time.
- Runner-up, "**Best Sustainability Project 2023**" - out of 1700+ hackers.

Detecting Breast Cancer with Logistic Regression 📄 | Python, Seaborn, Machine Learning

- Pre-processed** and cleaned dataset with **Pandas and NumPy**, **enhancing prediction accuracy**.
- Utilized **Matplotlib** and **Scikit-learn** for data visualization and analysis. Conducted feature selection using **Correlation Matrix, SelectKBest, and Recursive Feature Elimination**.
- Evaluated model accuracy using metrics such as **confusion matrix, precision, recall, and F1 score**; **achieved 96% accuracy**.
- Research **published in International Journal of Advances in Engineering and Management**.

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

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