SUNAMI DASGUPTA

5-Star coder @ CodeChef — Stanford Hackathon — Google CodeJam 2022 — LiFT Scholarship

📞 +1-530-636-5824 ✉ sunamidasgupta@gmail.com 🌐 sunamidasgupta.netlify.app ⊙ Sunami09

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

Teaching & Lab Assistant ⬈   **08 / 2022 - present**
California State University, Chico   *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.**
- Instructed lab of 25 students in programming techniques through easy-to-follow examples, leading to a **10% increase in final exam scores**.

Software Developer Intern ⬈   **05-2022 - 07-2022**
Multiprocessing Muggles   *Remote*
- Developed a **MERN** based video calling application to support 10k+ users while maintaining **93% uptime**
- 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.
- Utilized the **OpenCV** to optimize the **image processing pipeline** resulting in a significant improvement in the speed and usability of Spottr.

Detecting Breast Cancer with Logistic Regression ⬈ | **Python, Seaborn, Machine Learning**
- Pre-processed and cleaned the dataset using **Pandas** and **NumPy** libraries to ensure **accuracy of predictions**. Used **Matplotlib** and **Scikit-learn** libraries to visualize and analyze the data.
- Feature selection was done using techniques such as **Correlation matrix, SelectKBest, or Recursive Feature Elimination.**
- The accuracy of the model was measured using various metrics, including **confusion matrix, precision, recall, and F1 score**, which showed that the model had a **accuracy 96%**.

Movie Streaming App ⬈ | TypeScript, REST APIs, Node, Modal UI   **01 / 2022**
- Designed and implemented a clean, **user-friendly interface** using **React** ,**Modal UI**, **Styled Components** and **Tailwind CSS**.
- **Optimized** the performance of the application by implementing efficient **REST APIs**, ensuring fast and reliable **data transfer** between the front-end and back-end.

HONORS & AWARDS

Google Code Jam 2022 ⬈ **-** Rank 647 out of 45300.
CodeChef Global Coder 2021 ⬈ **-** Global Rank 9 out of 60K+ candidates.
Linux Scholar 2022 ⬈ **-** Awarded as the "Developer-Do-Gooder" - Open-Source Contribution.
Chico State International Student Excellence Scholarship 2022.
Certificate of Excellence ⬈ **-** For being in the top 0.1 % of 1.78 million candidates.

SKILLS

Languages: C, C++, Python, Java, HTML/CSS, JavaScript.
Technologies/Frameworks: React, Node, MongoDB, ExpressJS, TypeScript, Tailwind CSS, jQuery, JS(ES6+), Bootstrap , REST API, Mongoose, Linux/Unix, Bash Shell Scripting