SAHITH KARRA

Fremont, CA | (510)-265-4887 | sahith.karra@gmail.com | linkedin.com/in/sahithkarra | github.com/sahkar

EDUCATION

CALIFORNIA POLYTECHNIC STATE UNIVERSITY (BS)   San Luis Obispo, CA
Major in Computer Science; Minor in Mathematics   Expected June 2025
GPA: 3.92 (President's List, 3x Deans List)
Relevant Coursework: Data Structures, Object Oriented Prog. (Java), Systems Programming (C), Discrete Structures, Algorithms

AMERICAN HIGH SCHOOL   Fremont, CA
Unweighted **GPA: 3.93** | Weighted **GPA: 4.41**   2019- 2022

TECHNICAL SKILLS

Programming Languages: Python | Java | C/C++ | Assembly | C# | Dart | JavaScript
Frameworks & Technologies: Streamlit | .NET | ReactJS | NodeJS | Flutter | K8s | Bash | Docker | CAD

EXPERIENCE

AISERA (Generative AI start-up ~300 employees)   Palo Alto, CA
Customer Engineering Intern   June 2023 – Sep 2023
- Aisera is an AI-powered service management platform that automates IT & customer support operations
- Developed a Streamlit KPI tracking tenant dashboard to provide real-time insights into critical performance metrics, facilitating data-driven decision-making, saving 15 hours a week on manual reporting
- Orchestrated the seamless deployment of the application onto a production Kubernetes cluster.
- Experimented with generative AI concepts such as RAG, LLMs, and AI hallucination

CAL POLY CS PROJECTS   San Luis Obispo, CA
Undergraduate Student   Aug 2022 – Current
- Parallel Huffman encoding/decoding algorithms for bitmap images with systems-level C
- Multi-threaded minimal shell terminal with systems-level C

STANDARD INDUSTRIES (Industrial Conglomerate ~ team of 8 people)   Remote
Tech Engineering Intern   Jan 2022 – Mar 2023
- *(Project 1)* Conducted extensive research to identify optimal innovation management solutions to crowdsource ideas and effectively manage workflows, bolstering ideation and productivity. Presented findings to company executives and CFO
- *(Project 2)* Innovated OTA firmware & ML updates for industrial IoT devices, enhancing defect detection via computer vision in factory settings.

MADE AND MODERN (Furniture manufacturing start-up)   Fairfield, CA
CAD Intern   Jul 2021 – Aug 2021
- Designed complex CAD models for detailed furniture pieces. Developed algorithms to optimize CNC layouts across furniture pieces to reduce overall wood wastage by 15%

PUBLICATIONS

An Improved / Optimized Practical Non-Blocking PageRank Algorithm for Massive Graphs   Mar 2022
- Collaborated with Professor Satya Peri and Ph.D. students to optimize the PageRank algorithm, resulting in a non-blocking parallel variant. Published findings in Springer's International Journal of Parallel Programming.

LEADERSHIP & CLUBS

CAMPUS CLUBS: Center for Innovation & Entrepreneurship (CIE) | CSAI | Multicultural Engineering Program
SCOUTS BSA (National Youth Leadership Training)
- Responsible for leading a 10-day course involving team-building activities and leadership presentations for 150 Scouts

ACCOMPLISHMENTS

ELEVATOR PITCH COMPETITION FINALIST (Calpoly Center of Entrepreneurship)   San Luis Obispo, CA
EAGLE SCOUT (Bronze Palm ~ Troop 132)   Fremont, CA
PRESIDENT VOLUNTEER SERVICE AWARD (Gold)