

PRATHAM “PD” DAROOKA

Santa Clara, California, U.S. | Mumbai, Maharashtra, India
pratham0912@hotmail.com | www.linkedin.com/in/pdarooka

EDUCATION

Santa Clara University, Santa Clara, CA

Bachelor of Science, Computer Science & Mathematics, Expected June 2023

Minor: Computer Engineering & Entrepreneurship

Cumulative GPA: 3.789 || Major 1 GPA: 3.755 || Major 2 GPA: 3.771

Related Course Work: Data Structures & Algorithms, Computer Networks, Computer Graphics, Product Design, Probability & Statistics, Foundations of Artificial Intelligence

TECHNICAL SKILLS

Proficient in C++

Have experience doing Game Development, Ethical Hacking, Web Design, SEO

Have knowledge of Python, Linux, XCode, Unity 3D, Visual Studio Code, Git

PROJECTS

www.github.com/pdarooka

Certifier: This program is designed to generate PDF certificates with the awardee’s details printed in high quality efficiently, given the LaTeX template and a CSV awardee database. (C++, LaTeX, Bash)

Office Hours Simulation: This program uses the C++ STL to simulate real-time university office hour student visits for professors. It involves generation of individual reports with topic-wise and student-wise sorting and searching, which could help evaluate the efficiency of university office hours. (C++)

Frequency Analysis and Caesar Cipher Tool: This program computes the distribution of the letters in a given text to aid substitution-based ciphers. To complement the Frequency Analysis Tool, a Caesar Cipher Tool was developed to implement both encoding and decoding of Caesar Cipher – a monoalphabetic-substitution cipher. These two programs were developed to help my team with the CTF competition. (Python3)

The eBuoy: Engineered and invented the concept of an enhanced buoy to counter pollution on the coastline while efficiently generating electricity, using principles of constructive and destructive interference of waves.

Virtual Tour @ City of Santa Clara Parks: Designed and developed a gamified virtual tour prototype for the thousands of visitors of all the City of Santa Clara Parks, with a team of 2.

WORK EXPERIENCE

Dynacons: Systems and Solutions, Mumbai, India

June – July 2017

Student IT Intern

- Configured, upgraded, and relocated PC hardware and software to increase network efficiency.
- Troubleshoot applications on multiple operating systems and a range of devices.
- Contributed to the assembly of approximately 40 PCs to a 4,00,000 PC order by the Life Insurance Corporation of India, in a week.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

Second Place: Hack for Humanity – BroncoSec: Capture the Flag, 2020

Abraham P. Hillman Prize for Success on the Mathematics Contest for First Year Students, 2020

Technology Advisor: Candid Expressions, 2019

Member: Association for Computing Machinery @ Santa Clara University, 2019

Second Place: Monash University and International Baccalaureate S.T.E.M. Competition, 2018