Sachit Lumba

📍 Dubai, UAE • 🖂 sachitlumba@gmail.com • slumba@andrew.cmu.edu • 📞 +971 56 113 8064 • 🞧 sparrownor 1 • 🛅 sachitlumba

Education

School of Computer Science, Carnegie Mellon University Bachelor of Science

Computer Science, May 2024

Relevant Coursework:

- Intro to Computer Systems
- Principles of Functional Programming
- Mathematical Foundations of Computer Science
- Concepts in AI

Dubai College

Sixth Form

A-Levels, May 2020

Relevant Coursework:

- Computer Science A*
- Mathematics A*
- Physics A*
- Chemistry A*
- EPQ A*

Skills

Languages:

Python · C · JavaScript · Standard ML · Julia · LaTeX · Swift

Frameworks:

Activities

Music

Jazz Pianist, Tabla Player, Producer

Robotics Club

Founder, Dubai College

Diving

PADI Advanced Open Water

Conservation

Operation Wallacea, South Africa, 2019

Work Experience

CMU - Intro to Computer Systems · Teaching Assistant

September - December 2021

- Served as part of the course staff for 15-213 at CMU
- Led the Autolab team, managing the timely release and submissions of coding labs
- Taught recitations as well as conducted office hours to assist students with course content

Fincent · Full-stack Developer

June - August 2021

- Designed and built a customer service portal for the Fincent web app
- Built and updated an ExpressJS backend along with a React Material UI Frontend
- Incorporated AWS CloudWatch Logs from the main Fincent App for use by customer service agents and ticketing management using the API for Linear
- Collaborated on the main Fincent web app, writing code to enhance the software and fix bugs

Dubai College · Teacher

lune 2021

- Independently taught a mini-course on the basics of functional programming for Grade 11
 Computer Science students
- Delivered 4 hour-long lessons to 2 separate class sections, designing lesson plans for each
- Covered the topics of higher-order functions and lists in Standard ML

Li2 Innovations · Programmer

July - August 2019

- Learnt the basics of C and C++, and implemented fundamental image processing algorithms using OpenCV
- Built a Python OpenCV security camera project which involved image processing, facial recognition, and video transmission
- Image thresholding, background subtraction, motion detection, face detection, TCP/UDP data transmission

Selected Projects

NSC Sports · Summer 2021

- Developed a web app for the Sports Ministry of Sri Lanka to manage the athletes of various sports associations
- Improved the security of the ExpressJS backend and wrote a Material UI frontend in React
 Curbon · Summer 2020
- Brainstormed and coded an iOS app to allow users to offset carbon emissions of particular clothing brands
- SwiftUI solution with a Firebase backend as well as a Stripe payment system

MUN-Net · A-Level Computer Science 2019-20

- Designed a system for Model UN organisers to set up and track conferences
- User oriented design-process consisting of multiple interviews and prototyping
- Project was implemented in Python using Django to manage the backend
- Also used NGINX, gunicorn for deployment, Material Design for frontend

Awards and Honors

- AI Olympiad Round 2 Jan 2020, Placed 11th in the UAE
- Al Olympiad Round 1 Nov 2019, Placed 3rd in the UAE
- Bebras Computing Challenge 2019, 144/180, Second highest score in my grade
- Silver British Physics Olympiad (BPhO) Round 1 2019, Highest score in grade
- Gold BPhO AS Challenge 2019, Highest score in grade