

# Sachit Lumba

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## 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:*

React · Express · NodeJS ·  
Django · OpenCV · SwiftUI

## 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

**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

June 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

**Private Computer Science Tutor**

February - April 2019

- Planned and conducted weekly computer science lessons for two students, covering problem-solving techniques and basic Python programming.

## 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
- *AI 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