u3572970@connect.hku.hk	Sabyasachi Purkayastha	+852 5697 0024
EDUCATION		
Pok Fu Lam, Hong Kong	The University of Hong Kong	September 2020 – Present
Sophomore, Bachelor of Engineering, I	Major CS and Minor Finance, - Full Scholarship for 4 Years	
Sylhet, Bangladesh	Anandaniketan	August 2017 – June 2019
• Completed A'Levels with 4 A* in Phys	ics, Chemistry, Mathematics and Further Mathematics	
HIGHLIGHT PROJECTS		https://github.com/Shoh-
Play2Learn An educational based text	game using C++. Included a few rounds of healing mechanis	m called lucky-dice along with a round of rapid-fire questions .
<ul> <li>Allowed users to load previous data</li> <li>Created a Make File to organize co</li> </ul>	ode compilation and increase efficiency.	
<ul> <li>OOP approach to handle complex</li> <li>JAVA GUI for the client.</li> <li>Proper use of exceptions for error handle</li> <li>Multi-threaded approach to handle</li> <li>NOTAKTO AI</li> <li>An AI implemented using python the</li> </ul>		e accordingly such that it's impossible to beat the AI.
OOP approach to handle complex JAVA GUI for the client. Proper use of exceptions for error I Multi-threaded approach to handle NOTAKTO AI An AI implemented using python the	game mechanisms and rules.  andling.  networking.Java sockets to handle network multiplayer.  at analyzes every move of the User (opponent) and plays it's mov	
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research project.

**Technology Instructor** BSD education, HongKong June 2021 - August 2021

- Collaborated with a group of instructors to create a practical introductory course on Machine Learning using Python.
- Instructed numerous classes that ranged from elementary programming lessons to in depth courses that iterated through important AI concepts and algorithms.

## SKILLS

- Programming languages and core: Java, Python, JavaScript, TypeScript, C/C++, Shell(Scripting), Hashcat, Linux/UNIX/Kali Linux Web Development: HTML5, CSS3, VUEJS, EJS, chart.js, jQuery, NodeJS, ExpressJS, KoaJS, SQL, MongoDB, Mongoose, GraphQl Machine Learning: Regression, Classification, Clustering, NLP, Apriori Algorithm

## ADDITIONAL EXPERIENCE AND AWARDS

- GOLDMAN SACHS Engineering Virtual Program: Using Kali Linux and Hashcat, cracked leaked password database which were using Secure Hash Algorithm (SHA)
- JPMORGAN CHASE & CO Software Engineering Virtual Experience: Build an interface with a stock price data feed and display data visually for traders.
- University of Hong Kong Entrance Scholarship Full tuition for the entire study duration.
- The Edexcel Higher Achievers Award & The Daily Star Award Award that recognizes academic excellence for A'Levels and IGCSEs.
- Certificate of recognition from the Mayor's Office for humanitarian works.
- Certificate of recognition from the Ministry of Environment, Forest, and Climate Change of the People's Republic of Bangladesh for conducting activities regarding Environment Conservation and Climate Change.
- Co-President of UNICEF HKU Representing UNICEF at HKU, to advocate for the wellbeing and equal rights of every child. Leading fundraising and educational
- Equal Opportunity Student Ambassador contributing to the general well-being of the student community in the University, and the society in general in respect of equity, diversity and inclusiveness.
- HKU Student Ambassador.

## INITIATIVES

- Founder of "Welfare for All" and "Anandaniketan Earth Club", both of which have the vision of encouraging a brighter future for the country.
- Youth in Action during the dengue epidemic in Bangladesh, visited the slums of Sylhet and Rohingya camp in Chittagong to raise awareness of how dengue virus spreads.
- Pledge4Change provided sewing machines and a rent-free premise allowing a group of underprivileged people to create a sustainable income source for themselves.