Jishnu Raychaudhuri

+1 (720) 761-3908 | jishnu.raychaudhuri@gmail.com | 503 Harvard Ln, Boulder, CO 80305

EDUCATION

Expected May 2023 ● **Bachelor of Science** ● **University of Colorado, Boulder**
- Major in Computer Science
- Minor in Applied Mathematics
  - Calculus, Linear Algebra, Applied probability, Statistical modelling, Regression analysis

2019 ● **IB Diploma** ● **Island School, Hong Kong**
- Overall Result: 41 points
  - Subjects: Mathematics HL, Physics HL, Chemistry HL, Economics SL, English SL, Spanish SL

SKILL SET

- Languages: C++, Python, HTML, JavaScript, CSS, Excel VBA, SQL, Scala, R
- Database: MS SQL, Cassandra, Mongo DB, AWS Dynamo DB
- Software Development Framework: Bootstrap.js, Node.js, Angular, JIRA
- Algorithms: BFS, DFS, Dijkstra, Kruskal, DP, Memoisation, Sliding window
- Operating Systems: LKMs, Multithreaded, Paging
- Cybersecurity: Wireshark, Burp Suite, Encryption protocol (AES, RSA), CIA triad, MFA
- ML: Naïve Bayes, Lasso & Ridge Regression, SVMs, Random Forests, Boosting, Bagging
- Artificial Intelligence: A* search, Q Learning, Minimax, Genetic Algos, Bayesian Networks, HMMs

EXPERIENCE

Course Assistant for Undergraduate Algorithms Course, CU Boulder   **Jan 2023 – Present**
- Facilitated group discussions between students to solve problems in an organic manner
- Identified common problem areas for students and communicated to professors for better course management

Frontend, *Team DigiClips – Capstone Project*, Boulder, USA   **Aug 2022 – Present**
- Upgraded existing Angular 13 frameworks to Angular 14
- Developed UI models using Figma for project sponsors
- Developed and edited videos summarising project details

Undergrad Researcher, *CU SPUR*, Boulder, USA   **May 2022 – Aug 2022**
- Developed GUI for setting magnetic fields using PyQt5
- Helped develop a PID controller for dynamic steering of magnetic fields in Python
- Measured and calibrated Optically Pumped Magnetometers within an EM shield
- Soldered wires onto BNC cable heads for efficient wiring solutions

Intern, *Fresenius Kabi - Netcare*, Hong Kong   **Mar 2021 – Aug 2021**
- Wrote macros using Excel VBA to streamline workflow for colleagues in Taiwan
- Wrote user manuals for internal SAP data management software
- Tested software for mobile apps to be used by Fresenius Medical agents
- Reported bugs and glitches using JIRA Software board
- Handled service tickets and JIRA and Confluence permissions using ServiceNow

Intern, *Smile Tech*, Hong Kong   **Jun 2020 – Aug 2020**
- Wrote scripts to scrape real-time price data from NFT marketplaces (Python)
- Worked with APIs for real time crypto-currency conversions
- Managed databases using Amazon AWS DynamoDB
- Generated 3D graphs using scraped data (Python)

Intern, *Convergination Ventures Ltd.*, Hong Kong   **Jul 2018 – Aug 2018**
- Gathered digital data on companies using social media
- Researched multinational companies regarding online presence and customer interaction
- Worked with AI Tool called *Crimson Hexagon* to identify patterns in consumer sentiment

ACADEMIC ACHIEVEMENTS

- Current **GPA 3.89**
- Member – **Tau Beta Pi** Engineering Honour Society
- Achieved inclusion On **Dean's List**, for every Semester

PROJECTS

C++ Pokémon Project:
Developed an object oriented, text-based version of the popular Pokémon game.

Developed using:
- C++
- Written on Visual Studio Code
- https://github.com/SirJishesALot/PokemonCPP

CU Broadcast Project:
Worked in a team to create a website offering a centralised location for online lecture recordings for CU students. Made with Node.js and REST APIs
.
- Used Atlassian JIRA boards to manage the project
- Used Slack to communicate and coordinate with fellow team members.
- Made UI/UX components using the Bootstrap library for JavaScript, HTML, CSS
- https://github.com/CSCI-3308-CU-Boulder/204-6