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ROSHAN POUDEL

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EMPLOYMENT

Remote Developer Intern   **Sammantrana Consulting, Singapore**   **Summer 2020**

- Designed and implemented a Java-based backend microservice that matches students in need of financial aid with potential donors
- Implemented Hopcroft Karp algorithm to guarantee maximum student - donor bipartite matching
- Designed and Implemented an email-notification system to periodically email the donors about potential matches

Peer Tutor   **Academic Success & Tutoring, SUNY Korea**   **Spring 2019 - Present**

- Meet with about 10 students on a bi-weekly basis and tutor courses on Mathematics and Computer Science
- Tutor for Intro. to Algorithmic thinking using Python, Intro. to OOP in Java, Pre-Calculus, Calculus I & II

EDUCATION

Incheon, South Korea   **The State University of New York, Korea**   **Fall 2018 – May 2022**

- B.S. in Computer Science. CGPA: 3.93
- Coursework: Data Structures; Computer Architecture; Algorithms; Functional Programming; Graph Theory

TECHNICAL EXPERIENCE

Personal Projects

- **SUNY Korea Tutoring Center Webapp** (June - Present): A MEN stack webapp to replace the manual tutor - tutee assignment in my university. Students can login and enroll or drop in tutoring sessions, tutors can accept or reject a tutoring request, admin can view and modify assignments via an admin dashboard.
- Mongodb, Node.js, Express.js, Passport.js, HTML/CSS, Bootstrap, Heroku
- **BOTVID-19** (April 2020): A Facebook Messenger bot that periodically scrapes the Internet for statistics regarding COVID-19 and updates the users via Messenger text messages.
- Python; Flask; Selenium; SQL; Heroku
- **RGB Color Game** (May 2020): A fun color selecting game where users have to select the right color among 6 different colors from an RGB color code. Designed to teach newbies about RGB color system.
- Vanilla JS; HTML/CSS; Heroku
- **IGC Cafeteria Bot** (May - June 2020). A Facebook Messenger bot that checks IGC's website for weekly menu, updates the database, and periodically alerts the subscribers via text message about different menu items available in the cafeteria. Bot is being designed to be smart enough to recognize Breakfast, Lunch, and Dinner Hours, and will only send the relevant menu according to the current time
- Python; Flask; Selenium; SQL; Heroku

AWARDS

- **First Prize, SUNY Korea Mechathon:** Co-won first prize in SUNY Korea Mechathon Competition where we developed an altitude and pressure gauging Audrino that transmitted the readings to an Android app developed using MIT app inventor. The competition lasted for 3 hours, and I was responsible for the development of mobile app.
- **Global Development Award:** Full tuition, room, and board scholarship to attend SUNY Korea for 4 years. Scholarship Value: USD 125,000.
- **Academic Excellence Scholarship:** Secondary full tuition scholarship for ranking first in the freshman year group in the CS Department in the Spring 2019 Semester. Scholarship Value: USD 11,775.

Languages and Technologies

- Java; Python; Ocaml; jQuery; Node.js; Express.js; HTML; CSS; Flask; SQL; Git/GitHub; Web Scraping; Linux