Anubhav Ghosh

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EXPERIENCE

Full Stack Developer
(2020 - Present)

Rokwire Ecosystems | Champaign, IL

Helping build tools to facilitate communication amongst smart communities @Rokwire.

Current Projects:

- Developing frontend and curating **UI/UX** experience
- Implementing a backend to keep track of and update events from a centralized server using **Python** and **MongoDB**

IoT Prototyping
(2019 - Present)

University of Illinois, SRTI Lab | Champaign, IL

Working on finding practical cost-effective tech solutions for enhancement of campus-life

Current Projects:

- Digitizing I-Cards via **NFC** emulation on phones
- Implementing a network of Bluetooth Decibel Sensors around campus for student convenience

Bioinformatics Intern & Lab Assistant
(April 2017 - July 2017)

Tata Consultancy Services | New Delhi, India

- Conducted and worked on a case study to identify genomic abnormalities via **Python** in provided sample genomes from patients across the globe
- Mapped, analyzed and cross referenced patient genomes with **Galaxy** and **UCSCBrowser** to find genetic abnormalities which may be a factor causing them to be unresponsive to conventional treatment
- Designed and implemented a paperless asset management system in **C++**

PROJECTS

Evolve And Mutate
(2018)

University of Illinois |Champaign, IL

- Developed a genetic algorithm in **C++** to mutate/evolve 'populations' of words to form coherent target words or sentence structures based on predetermined user input 'targets' via **elitism**, **crossbreeding** and **tournament style survival of the fittest.**
- Implemented a **GUI** in **OpenFrameworks** to visualize fitness changes with respect to a given target solution.

EDUCATION & RELEVANT COURSEWORK

University of Illinois at Urbana-Champaign | B.S. in Computer Science + Chemistry   *(Expected May.2021)*

- Discrete Structures, Algorithms & Automata
- Software Design
- Statistical Analysis
- Data Structures
- Computer Architecture
- Systems Programming

SKILLS

C++|Python| Java | MongoDB| C#| Linux/Unix Shell Scripting | Assembly | OpenFrameWorks |