

# REANNU INSTRELLA

## EDUCATION

**Cum Laude, Bachelor of Science in Computer Science, 07/2023**

University of The Philippines - Diliman - Quezon City, Philippines

- Received **DOST-SEI Merit Scholarship**
- Graduated **Cum Laude (1.63)**

**High honors, High School Diploma, 05/2018**

Philippine Science High School - Ilocos Region Campus

- Ranked **13 in Class of 80**
- Awarded **High Honors**
- Director's List **2016-2018**

## PROFILE SUMMARY

A Computer Science graduate from the University of the Philippines - Diliman with a strong interest in software development like full-stack development, and server management. Knowledgeable in various areas including languages such as JavaScript, TypeScript, Python, C, and others as well as web development frameworks like React, Express, and other web service technologies like reverse proxying with Nginx, CloudFlare tunneling. Developed several projects such as NSNP-Simulator, BoredApp, RPSuper, and maintaining servers locally and in the cloud for different purposes and projects such as file serving and backend for web applications.

## EXPERIENCE

**Full-stack Developer Intern (June – July 2022)**

**Interactive Learning Center Diliman**

Collaborated with a team for development of a calendar application by implementing new features and functionality including UI design improvements to enhance user experience.

**Workshop Leader – Internal Operations (March – May 2021)**

**Google Developer Student Clubs – UPD Chapter**

Led the team in planning and hosting of workshops for the members of the organization.

**PSHS Computer Guild - President (2015-2016)**

**Philippine Science High School – IRC**

Spearheaded planning of club events, projects, and competitions as well as hosting workshops in different computer related fields.



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## WEBSITE AND PROFILES

- ❖ <https://reannuinstrella.me>
- ❖ <https://github.com/reannu123>
- ❖ <https://www.linkedin.com/in/reannu-instrella>

## TECHNICAL SKILLS

**Database Tech:** MongoDB, MySQL, PostgreSQL, Prisma, Firebase

**Infrastructure:** DigitalOcean, CloudFlare, AWS, Raspberry Pi, Nginx, Docker,

**Source and Version Control:** Git, GitHub, GitLab

**Languages:** JavaScript, Python, C, Java, C#, C++, TypeScript, Arduino

**Web Dev:** Node.js, React, Express, NextJS

**Others:** Unity 3D

**Operating Systems:** Linux, Windows, Android

## AWARDS

**Graduated Cum Laude, 2023**

Completed BS Computer Science in UP Diliman Cum Laude with an average of 1.63.

**DOST-SEI Merit Scholarship, 2018-2023**

Awarded a scholarship by the Science Education Institute of the Department of Science and Technology for performance on the qualifying examination which secured financial assistance for the duration of college education.

**Graduated with High Honors, 2018**

Awarded High Honors for graduating High School with an average of 1.5 or higher which was accomplished by 13 in our class of 80.

## SOFTWARE PROJECTS

### FireRPS

- A real-time Multi-player Rock Paper Scissors game
- Uses React, Express, and Firebase Realtime Database
- Can be accessed here <https://reannuinstrella.me/rps-firebase/>

### BoredApp

- A WIP CRUD Task App with authentication
- Uses the MERN stack and the Bored API
- MongoDB, ReactJS, Express, NodeJS
- Can be accessed here <https://reannuinstrella.me/BoredApp/>

### NSNP-Simulation

- A Numerical Spiking Neural P System visual simulator
- A WIP Simulator for a Computational Model in Theoretical Computer science - Membrane Computing built using React JS and Cytoscape
- As part of a completion requirement for our research under Algorithms and Complexity Laboratory in the Department of Computer Science in UP Diliman
- Can be accessed here <https://nsnp.snapse.website/>

### TrendTracker

- A WIP Product demand forecasting tool
- Headed the Frontend for our Innovation and Technopreneurship Course
- Uses React and Django

### Plannercord

- Administrator Discord Bot
- Headed the group project for our Software Engineering Course
- Used Discord API to create an assistant chatbot.
- Used MongoDB as the NoSQL database.

### ColorLock

- Interactive Encryption Tool
- Headed the User Interface design
- Used Python and Pyglet for the UI engine

### Flappy Physics

- Interactive Physics Simulator written in Java
- Headed Main Development

## OTHER SKILLS

Analytical Thinking  
Eagerness to Learn New Technologies  
Team Collaboration Avid Learner

IT Support  
Office suite proficiency  
Troubleshooting  
Agile and Scrum

## INTERESTS

- Game Development
- Web Development
- Mobile App Development
- Widening knowledge and improving technical skills
- Tinkering with Electronic Devices