

JULIAN LIOANAG

Computer Science Student

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EXPERIENCE

TECDP Summer Intern

Cigna

📅 May 2021 – Aug 2021 📍 Philadelphia, PA (Online)

- Lorem ipsum is placeholder text commonly used in the graphic, print, and publishing industries for previewing layouts and visual mock-ups.

Research Assistant

RPI Undergraduate Research Program

📅 Jan 2020 – Present 📍 Troy, NY

- Co-authored an academic paper about improving SOTA data-to-text generation.
- Developed data correction post-processing scripts in Python.
- Performed 500+ subjective evaluations using Amazon Mechanical Turk.
- Currently researching storyboard skeleton natural language generation.

Fullstack Developer

Smartrider: Rensselaer Center for Open Source

📅 Jan 2020 – Present 📍 Troy, NY

- Co-founded an open source, all-in-one transportation app for RPI students on Android, iOS, and web.
- Released a stable prototype with Flutter framework and Firebase back-end.
- Created prototype UI for shuttle and bus scheduling panels using Flutter and Dart.
- Designed architecture for bus and rideshare models using Business-Logic Components (BLoC) pattern.
- Worked on bus transit functionality by creating a REST API and noSQL database.
- Built Firebase cloud functions for student-run ridesharing service using Hypertrack SDK.

Programming Team Member

FRC Team 41 Robotics

📅 Sep 2015 – May 2019 📍 Warren, NJ

- Worked on a 3D-printed drone using Autodesk Inventor and Raspberry Pi Zero W.
- Developed a touch screen GUI with Tkinter for an intuitive driver station used in competitions.
- Built basic HTML, JS & CSS front-end for a team-scouting application that analyzed 200+ teams at tournaments.
- Taught basic C++ programming to 10+ new members.

EDUCATION

B.S. in Computer Science

Rensselaer Polytechnic Institute

📅 Sep '19 – May '23 📍 Troy, NY

- GPA: 3.34/4.0
- Courses: Data Structures, Fund. of CS, Computer Organization, Intro to Algo., Software Documentation & Design, Principles of Software.

LEADERSHIP

Executive Board Social Chair

RPI Philippine American League

📅 Jan '21 – May '21 📍 Troy, NY

- Participated in weekly executive board meetings to discuss club status, develop future plans, and reflect on accomplished material.
- Created club-wide activities for general body meetings of 20+ participants.
- Organized intercollegiate event of 30 participants between Filipino culture clubs.

PROJECTS

FakeBlock

- A deepfake detection browser-extension made with TypeScript and Tensorflow.
- Worked in a 4-man team using Scrum methodology.
- Created script for injecting collapsible DOM elements into websites.
- Designed dynamic results page UI with React and material-ui.
- Wrote unit tests with TS-Jest.

Ongetchi - Tamagotchi that eats your music

- Created minimalistic GUI in Python with Tkinter library.
- Implemented Last.fm API to track users' music listening history.

wav-art

- Created generative art by processing .wav files in Python.
- Used pydub library to create normalized data points from soundwaves.
- Plotted data using a modular cellular automata algorithm and matplotlib.

SKILLS AND TOOLS

- **Languages:** Python, TypeScript, JavaScript, C/C++, Dart, Java
- **Tools:** Git, Flutter, Amazon Mechanical Turk, Jupyter Notebook