JULIAN LIOANAG

Computer Science Student

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EXPERIENCE

TECDP Software Engineer Intern
Cigna

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

- Worked on JBoss Fuse 6.3 to 7.7 migration with Systems Integration team.
- Particpated in Scrum ceremonies and became familiar with Agile development.

NLP Research Assistant
RPI Undergraduate Research Program

📅 Jan 2020 – May 2021   📍 Troy, NY

- Co-authored two academic papers about improving SOTA data-to-text generation and a corpus for common-sense inference.
- Developed data correction post-processing scripts in Python.
- Performed 500+ subjective evaluations using Amazon Mechanical Turk.
- Formatted datasets for use in Google's BERT NLP model.

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 frontend and Firebase back-end.
- Created prototype UI for shuttle and bus scheduling panels using Flutter widgets.
- Designed architecture for bus and rideshare models using Business-Logic Components (BLoC) pattern.
- Created REST APIs and noSQL database for bus location functionality.
- 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: 3.49/4.00
- Courses: Data Structures, Fund. of CS, Computer Organization, Intro to Algo., Software Documentation & Design, Principles of Software.

LEADERSHIP

Webmaster
RPI Philippine American League

📅 May '21 – Dec '21   📍 Troy, NY

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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.
- Led 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.

SKILLS AND TOOLS

- **Languages:** Python, TypeScript, JavaScript, C/C++, Dart, Java
- **Tools:** Git, Firebase, Node, React, Angular, Flutter, Amazon Mechanical Turk