

# Aucoeur Ngo



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## TECHNICAL PROJECTS

### WeVote // <https://wevote.us>

- Collaborated with industry developers and student team on WeVote, an open-source project dedicated to increasing voter participation and turnout (40k+ users)
- Contributed to WeVoteServer, WeVote's Django backend (PR #1648)
- Wrote Python unit tests for retrieving JSON data from the PostgreSQL database via API endpoint

### pdlauncher // <https://www.npmjs.com/package/pdlauncher>

- Published NPM utility to launch peardeck session in-browser via CLI (500+ downloads)

### rpdrAPI // <https://aucoeur.dev/rpdrAPI>

- Authenticated RESTful API for creating, retrieving and modifying RuPaul's Drag Race trivia implemented with Node.js, Express, & MongoDB

### 3Dprinting Visual Displays // <https://www.thingiverse.com/thing:2512390>

- Designed, printed & shared Open Source CAD models as a visual learning aid for newcomers to 3D printing, used in school & universities, internationally (190k+ views, 42k+ downloads)

## WORK EXPERIENCE

### Intern, CyberSecurity Tools

Jun 2021 - Aug 2021

*CodeDay Labs*

*Remote, US*

- Create tools for penetration tests, run security assessments, deploy phishing campaigns
- Mentored by Nicholas Tong, Sr. CyberSecurity Engineer at AMSYS IS, with 2 other interns

### Curriculum Assistant

Sept 2020 - Jul 2021

*MakeSchool.org*

*San Francisco, CA*

- Developed Data Structures & Algorithms reference guide distributed to 200+ CS students
- Refactored instructional tutorials from Django with NoSQL / MongoDB for Flask & SQL

### Industry Partner Collaboration

Oct 2020 - Jan 2021

*Dominican University of California*

*San Rafael, CA*

- Automated 75% of manual administrative processes by developing web GUI utility to parse data & generate confidential PDF forms for eSignature with Google Apps Script
- Facilitated sprints, planning, retrospectives & demo meetings using Agile methodology as PM / SCRUM master on team of 5 engineers

### Techlab Manager / IT Associate

Oct 2015 - Aug 2019

*California Institute of Technology*

*Pasadena, CA*

- Spearheaded summer pilot makerspace program into a thriving & permanent lab
- Managed rotating team of 7-10 part-time student workers, volunteers and library staff
- Consulted for faculty, post-doc, grad & staff researchers on unique design & fabrication solutions
- Registered over 600 users, onboarding 10-25 new users per month, averaging 425+ successful print jobs between 85+ unique users monthly (data collected from Fall 2015 to Dec 2018)

## EDUCATION

### Bachelor of Science in Applied Computer Science

Aug 2019 - Aug 2021

*Dominican University of California*

*San Rafael, CA*