

# Aucoeur Ngo

## Software Engineer

*phonetic: 'o-kur'*

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- Backend software engineer (2 years) with familiarity in Frontend web technology & frameworks
- Former makerspace advocate career-pivoting from Library Development into Software Engineering

### SKILLS

**Languages** (Primary): Python, Javascript

**Frameworks:** Express, React, Django, Flask

**Tools:** Git, Redux, Prisma, SQLAlchemy, Terraform

**Languages** (Familiar): Golang, GraphQL, Typescript

**Services:** AWS, Docker, Heroku, Jira, RESTful APIs

**Databases:** MongoDB, PostgreSQL

### GITHUB PROJECTS

[github.com/aucoeur](https://github.com/aucoeur)

#### WeVoteServer

Jun 2021

- Contributed to Django backend of WeVote, open-source project for voter participation (40k+ users)
- Wrote unit & integration tests for retrieving JSON data from PostgreSQL db via API endpoints

#### Thesis Embargo Approval Workflow (Industry Collaboration Project)

Oct 2020

- Automated 75% of administrative workflow for making custom PDF eSignature forms
- Developed web-based GUI to ingest, parse, clean, save & retrieve data to/from Google Sheets
- Facilitated sprint planning, retrospectives & client meetings using Agile methodology as PM / SCRUM master on team of 5 engineers

#### Letterkenny Quote Generator

Mar 2020

- Developed web app that generates (nearly) 'real' sentences by using basic NLP techniques & doing random walks on 2nd / 3rd order Markov chains on 6 seasons of scripts as corpus data
- Technologies: Python, Flask, MongoDB Atlas, Docker

### WORK EXPERIENCE

[linkedin.com/in/aucoeurngo](https://linkedin.com/in/aucoeurngo)

#### Intern, CyberSecurity Tools

Jun 2021 - Aug 2021

*CodeDay Labs*

*remote US*

- Deployed internal phishing awareness campaign (54% click-through, 33% successful capture)
- Built containerized security tools & applications deployed & provisioned on EC2 & DigitalOcean
- Collaborated on a team of 3 interns, mentored by Nicholas Tong, Sr. Security Engineer at AMSYS IS

#### Curriculum Assistant, CS

Sept 2020 - Jul 2021

*MakeSchool.org*

*San Francisco, CA*

- Refactored instructional projects to be implemented across different frameworks, ie. Django & Flask projects using PostgreSQL to MERN stack (MongoDB / Express / React / Node.js); REST to GraphQL
- Developed comprehensive Data Structures & Algorithms reference distributed to 200+ students

#### Techlab Manager & IT Associate, Library

Oct 2015 - Aug 2019

*California Institute of Technology*

*Pasadena, CA*

- Spearheaded a summer pilot makerspace program into a thriving & permanent lab
- Managed rotating team of 7-10 student workers, volunteers and library staff
- Consulted for faculty, post-doc, grad & staff researchers to formulate design & fabrication solutions
- Administered service for 600+ users, onboarding 10-25 new users per month, averaging 425+ successful print jobs between 85+ unique users monthly

### EDUCATION

#### Bachelor of Science in Applied Computer Science

*Dominican University of California*

received Aug 2021

*San Rafael, CA*