Aucoeur Ngo Software Engineer

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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

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

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 received Aug 2021
Dominican University of California *San Rafael, CA*