

# Thuy-Vy Nguyen

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## EXPERIENCE

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### Oracle Cloud Infrastructure

Software Engineer

Jul 2021 - Current

- Supported Shepherd Deployment Automation Service, OCI's core deployment automation service used to deploy all of OCI's services and infrastructure to 40+ worldwide regions: assisted service's 5500+ users, participated (and won!) bug bashes, executed deployments, and served on-call to ensure reliability of service
- Implemented key features to improving user experience: filter releases in the UI, customizable filters to automatically create releases, UI alternatives to CLI, and re-designed components to have more intuitive design
- Improved operational load and performance by adding daemons that cancels/archives outdated releases and alarms/graphs for database connection metrics to maintain service health
- Onboarded Cerner's Soarian Clinicals to internal services and developed console UI
- Served as a panelist for new-grad hires and as a mentor for interns

Software Engineer Intern

Jun 2020 – Sep 2020

- Developed SheepDog: a Slack application to instantly send customizable notifications when a deployment updates; used in over 500 slack channels
- Implemented a database schema in SQL to associate deployments with slack channels and directed OCI's internal deployment service to message channels using Java, Slack APIs, and Guava's EventBus

### Data Interaction & Visualization Lab, Oregon State — Research Assistant

Jun 2020 – Jun 2021

- Designed and developed visual analytic tools for people to easily explore, interpret, and interact with large machine learning datasets; conducted user studies to evaluate interfaces, and wrote papers on usability of interface
- Papers accepted apart of ACM IUI 2023 & IEEE VIS 2021. See Project & Publications section.

### TAHMO Project — Web Developer

Oct 2020 – Jun 2021

- Managed cloud resources, enacting and overseeing application deployments using IBM Cloud
- Improved system's speed and performance by over 25% by inspecting network activity and optimizing database queries
- Enacted security measures to restrict resources to qualified by adding roles to user profiles
- Implemented email notifications for ticket updates and automatically subscribing managers and designated technicians on relevant tickets

### ideas42 — Volunteer Software Developer

Apr 2021 – Jun 2021

- Developed Vergil: app aimed at reforming the criminal justice system with React, Figma, and Storybook
- Develop For Good Volunteer: program that pairs undergraduates with non-profits to build projects aimed at social good

## PROJECTS & PUBLICATIONS

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### VIVA: Visual Exploration and Analysis of Videos with Interactive Annotation — Flask, Python, & Svelte

Introduces VIVA, a novel interactive tool for visually exploring long videos and searching for specific moments  
*ACM International Conference on Intelligent User Interfaces 2023.*

### Contrastive Identification of Covariate Shift in Image Data — D3.js & Python

Designed and evaluated visual interface that helps explain and identify dataset shifts to non-experts  
*IEEE Visualization Conference 2021.*

### UnPaws the Music — React, Figma, Redux, & Spotify Web API

Web application for users to combine their playlists and create custom animated cat visualizations determined by analyzing the music they've listened to in the last four weeks, six months, and all time

## EDUCATION

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### Oregon State University — Bachelor of Science, Computer Science

Graduated Jun 2021

- Focus in Human Computer Interaction, minor in Psychology with a 3.96 GPA
- Coursework: Cloud App Development, Artificial Intelligence, Informational Visualization, Engineering Psychology
- Involvement: IMPACT Lead Volunteer, Society of Women Engineers Ambassador, ProjectX Volunteer

## SKILLS

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**Programming Languages:** Python, Java, Javascript, C++, C, Kotlin, Terraform, SQL, Matlab, Haskell, Go, R, & Bash

**Web Development:** React, Redux, Svelte, Node.js, D3.js, AngularJS, Bootstrap, Blueprint, & Storybook

**Tech Tools:** MongoDB, Git, Figma, Docker, Jira, Latex, & Confluence