

Thuy - Vy Nguyen

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EXPERIENCE

Oracle

Software Engineer

Jul 2021 - Current

- Supported Oracle Cloud Infrastructure'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 in (and won!) bug bashes, executed deployments, and served on-call to ensure reliability of service
- Improved user experience by re-designing UI components, adding UI support for CLI exclusive functionality, implementing filtering by release targets in the UI, and implementing automatic release creation via customizable filters using React, Figma, and Blueprint
- Improved operational load/performance and maintained service health by adding daemons that cancels/archives outdated releases and Grafana graphs & alarms for database connection metrics using Java, Terraform, and Docker
- Onboarded Cerner's services to OCI internal services and designed/developed new console UI
- Panelist for new-grad hires and a one on one mentor for interns

Software Engineer Intern

Jun 2020 – Sep 2020

- Developed a Slack application, SheepDog, used in 500+ Slack channels to instantly send customizable notifications when a deployment updates
- 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 University — Research Assistant

Jun 2020 – Jun 2021

- Designed and developed visual analytic tools for non-experts to easily explore, interpret, and interact with large machine learning datasets
- Conducted user studies and wrote papers to evaluate usability of interfaces
- Papers accepted apart of [ACM IUI 2023](#) & [IEEE VIS 2021](#) (See Project & Publications section)

TAHMO Project — Web Developer

Oct 2020 – Jun 2021

- Used IBM Cloud to manage cloud resources by enacting and overseeing application deployments
- Updated UI to include more functionality (filtering, sorting, & ordering) using Angular.js and MongoDB
- Inspected network activity and optimized database queries of the ticketing system to improve performance by over 25%
- Enacted security measures by adding new user profile roles that restrict resource access to permitted users
- Implemented notifications for ticket updates and created automatic subscriptions for relevant managers/technicians

ideas42 — Volunteer Software Developer

Apr 2021 – Jun 2021

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

PROJECTS & PUBLICATIONS

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 a visual interface that explains and identifies dataset shifts to non-experts
IEEE Visualization Conference 2021

Interactive Visualization for AI Education — React, Tensorflow, Jupyter Notebooks, D3.js, & Python

Interactive and educative tools split into a web application and notebook that guides users through machine learning classification algorithms such as logistic regression and neural networks

UnPaws the Music — React, Figma, Redux, Node.Js, & Spotify Web API

Developed a web application that allows users to combine (con-cat-enate) their Spotify playlists and view custom animated cat visualizations based on their listening history over the last four weeks, six months, or all listening history

EDUCATION

Oregon State University — Bachelor of Science, Computer Science

Graduated Jun 2021

- Focus in Human Computer Interaction, minor in Psychology with a 3.96 GPA

SKILLS

Tech Tools & Languages: Python, Java, React, Docker, Terraform, SQL, MongoDB, Figma, D3.js, Node.js, Git, & Javascript