

WESLEY NGUYEN

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WORK EXPERIENCE

Software Developer - University of Arizona, *Tucson, AZ* Nov 2023 - Present

- Developed and maintained a university-wide research knowledge mapping platform to surface trends, collaborations, and funding patterns across 190,000+ publications and 6,000 researchers.
- Designed and built a publication import and management tool, enabling users to enter and validate publications with support for ORCID and AI-powered parsing of free text.
- Built a feed system for a research grant update system, allowing researchers and faculty to review, edit, and approve AI-generated summaries, ensuring accuracy and control.
- Implemented a flexible interface that displays diverse research items, such as laboratories and books, allowing researchers to edit specific items or profile sections with control over visibility and content.
- Revamped the user experience on the landing page by introducing role specific personas, such as student or researcher, improving click-through rates based on analytics.
- Authored comprehensive end-user facing documentation, modeled after frameworks like Docusaurus, improving onboarding and reducing support overhead.

IT Specialist - International Wood Products, *Clackamas, OR* May 2023 – Nov 2023

- Triaged, evaluated, and resolved technical support tickets through osTicket, addressing issues across multiple departments.
- Wrote and optimized PowerShell, JavaScript, and Python scripts to automate workflows and administration, handling routine processes such as mass emailing, data cleaning, and hardware inventory management.
- Automated Microsoft 365 user lifecycle management, including user creation, group membership assignments, permissions configuration, and account deletion.
- Supported Microsoft 365 Enterprise, ERP systems, and email servers for users across multiple locations.
- Set up and maintained a Wiki.js knowledge base to centralize documentation and user onboarding.

IT Intern - International Wood Products, *Clackamas, OR* July 2022 – Sept 2022

EDUCATION

University of Washington December 2022
B.A in Geography: Data Science Seattle, Washington

SKILLS

Languages: Python, JavaScript, TypeScript, SQL, PowerShell, R, Bash

Tools & Technologies: Git, MongoDB, Postgres, WordPress, Microsoft 365, osTicket, ArcGIS, QGIS, Docker

Frameworks: Node.js, Express, FastAPI, Flask, React, Next.js, Tailwind, Svelte

PUBLICATIONS

Understanding Research Dynamics at the University of Arizona
ASEE Annual Conference & Exposition, June 2025

Analyzed 190,000+ publications and 24,000 collaborations to uncover institutional trends using research metadata analysis, in order to drive data-driven decision making.

PROJECTS

Picatso | TypeScript, Next.js, React, Tailwind, Supabase [Link](#)

- Developed a full-stack web app that generates AI-driven images of cats based on user-specified adjectives and actions, earning first place in a hackathon.
- Designed and implemented a responsive front-end to deliver an intuitive user interface for creating and interacting with the generated cat images.
- Leveraged technologies like tRPC, Supabase, NextAuth, and Cloudinary for data storage, image hosting, and authentication to aid in rapid development and full type-safety.