

Alexander Dao

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EDUCATION

University of Florida <i>Bachelor of Science in Computer Science, Minor in Japanese, GPA: 3.8 / 4</i>	Aug. 2023 – May 2027 Gainesville, FL
Kansai Gaidai University <i>Asian Studies and Business Program</i>	Aug. 2024 – June 2025 Osaka, Japan
Palm Beach State College <i>Associate of Arts</i>	Aug. 2020 – May 2022 Lake Worth Beach, FL

EXPERIENCE

IBM TRIRIGA Senior Technical Analyst III <i>Palm Beach County School District</i> <ul style="list-style-type: none">Developed new IBM TRIRIGA Business Objects for calculating Work Order requirementsConverted legacy desktop interface into offline capable mobile web application with React for school technicians working in remote facilitiesCorresponded with school technicians to digitize scheduling forms into the TRIRIGA databaseTriage server balance errors within TRIRIGA dashboard, leading to a 100% up-time	Aug. 2022 – July 2023 West Palm Beach, FL
IT Project Management Office Intern <i>Palm Beach County School District</i> <ul style="list-style-type: none">Automated converting 800+ embedded school and phone record data into an index-able spreadsheet utilizing AppleScript and Vimium condensing archival teams work schedule in halfDeveloped the intern program schedule, including weekly events, project timelines, and follow-up survey, to adapt to changing vendor and district administration's availability, facilitating an uninterrupted weekly scheduleCreated training documents for Blackboard's ParentLink system to onboard new employees	June 2022 – July 2022 West Palm Beach, FL

PROJECTS

HomeLab <i>Docker, NixOS, Kubernetes</i> <ul style="list-style-type: none">Centralize configuration with NixOS, allowing for scalable deployment and version rollbacks with GitMaintain up-time with containerized Docker application deployed with Kubernetes across multiple locations in case of power outages, with attached IPKVM to allow for remote desktop access and recovery in cases of power outagesSecure all data with a 3-2-1 backup convention and data verification via ZFS file formatOperate private cloud and media network to be independent from large cloud providers, providing services such as Jellyfin, Syncthing, NextCloud, SSH, and SFTP	Sep. 2023 - Present
Personal Knowledge Management System <i>Lisp, Emacs, Org-Roam</i> <ul style="list-style-type: none">Architected a 200+ page Zettelkasten style note organization system along with GTD tasks system to standardize information ingest and project startup process	Jan. 2024 - Present
Command Line Image Editor <i>Rust</i> <ul style="list-style-type: none">Developed CLI tool to apply mathematical function upon pixel data within a larger data pipelineDesigned Rust-style memory ownership functions for optimized memory managementExecuted Test Driven Development with red, green unit tests ensuring application followed specification	Feb. 2024
Stats of America <i>Go, React</i> <ul style="list-style-type: none">Design parallelize-able data pipeline with Go-runtime to ingest US governmental data with 8x speed upliftCollaborate asynchronously via GitHub within a small, agile three man team to create a website displaying correlated trends within data.gov 300,000+ CSV dataset	May 2024
Minesweeper <i>C++, SFML</i> <ul style="list-style-type: none">Developed a graphical minesweeper game with SFML and within C++ memory managed system	Apr. 2024

TECHNICAL SKILLS

Relevant Coursework: Data Structure & Algorithms, Algorithm Abstraction & Design, Operating Systems
Languages and Frameworks: Rust, C++, Go, Emacs-Lisp, Bash, Python3, JavaScript, React, SFML
Developer Tools: Git, Docker, Kubernetes, Emacs, Org-Roam, Org-Tangle, Nix, SQLite
Certificates: CompTIA A+, Japanese Language Proficiency Test N1, Biotechnician Assistant Credentialing Exam