

# VIVIAN TUCHOLSKI

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## PROFESSIONAL SUMMARY

Innovative and detail-oriented Software Engineer with three years of experience in developing optimized, high-quality systems. Strong problem-solving skills, with a proven track record of delivering efficient solutions and leading teams through effective communication. Passionate about continuous learning and contributing to organizational success through technical excellence and collaboration.

## CORE COMPETENCIES

**Programming Languages:** Javascript, Python3, SQL, Java, C++

**Technologies:** NodeJS, REST, Linux, MySQL, Docker, Git, React, Agile/Scrum, Photoshop, Delmia

## EXPERIENCE

### Infosys - Associate Software Engineer

2022-2025

- Provided technical support to end users for account configuration, identifying problems via testing or customer feedback, and correcting problems based on shareholder expectations
- Responsible for integration of physical machines into a Manufacturing Operations Management (MOM) solution via Apriso software for Pratt and Whitney, including integration of new features alongside cohesive testing of multiple machine facets
- Analyzing and testing equipment performance records to assess efficiency of active equipment, and ensuring it met standards (above 80% utilization)
- Consult with engineering staff as an interface between hardware and software teams, and coordinating on project timelines

## PROJECTS

### Jibri

- Developed a data-processing Discord bot for seamless user interaction, built with JavaScript and Node.js, and deployed via Docker on a Raspberry Pi for efficient self-hosting
- Designed to process large quantities (>100k daily updates) of user-collected data retrieved via REST APIs, demanding high (99%) uptime and capable of handling weekly usage peaks of roughly 1000%
- Repeatedly optimized and iterated upon, improving the reliability of results and cumulatively improving net performance by over 400%, and decreasing server costs(reduced from  $O(2n^2)$  to  $O(2n)$ )
- Regularly implemented updates based on user feedback

### Imperial Relay

- Developed an open-source Discord bot enabling cross-server message relays, allowing users to broadcast messages across whitelisted servers without direct access.
  - Improved communication efficiency for ~30 groups (ranging from 10 to 100+ members), reducing message relay time from days to hours

## EDUCATION

**University of Texas at Arlington | Arlington, TX**  
Bachelors of Science: Computer Science

**May 2022**