

Bryce Jarboe

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OBJECTIVE:

Innovative and results-driven Computer Science graduate with a robust foundation in software development, algorithms, and distributed systems. Proficient in Python and C/C++, experienced in agile environments, and passionate about building scalable solutions that solve complex business challenges. Seeking to leverage my technical skills and collaborative mindset at Amazon to contribute to cutting-edge projects that enhance customer experience.

WORK EXPERIENCE:

Python Automation Engineer: Freelance Contracts (Aug 2024 - Present)

- Developed AI-driven automation tools that improved workflow efficiency and reduced operational costs.
- Created a resume optimization platform utilizing GPT-4 APIs, enhancing user experience with a cost-effective model.
- Designed scalable solutions using Python, focusing on high-impact results and innovative problem-solving.

System Administrator (Internship): SDSU College of Sciences (Feb - May 2024):

- Managed a multi-OS LAN environment, utilizing Azure and VMware to optimize system performance and resource allocation.
- Configured and maintained network infrastructure, ensuring reliability and security of services.
- Automated system operations through scripting, significantly reducing manual tasks and enhancing operational efficiency.

Shift Lead: T&M Dao Inc (Aug 2019 - Present):

- Led a team in a fast-paced environment, ensuring adherence to quality and service standards.
- Enhanced customer satisfaction through effective conflict resolution and operational management.

EDUCATION:

Bachelor of Science, Computer Science
San Diego State University

Graduated with Distinction
May 2024

Relevant Coursework: Systems Programming, Operating Systems, Data Structures & Algorithms, Machine Learning, Software Development, Computer Architecture

SKILLS:

Technical Proficiencies:

- *Programming Languages:* Python, C/C++, Java, JavaScript
- *Web Technologies:* HTML5, CSS3, React, Node.js
- *Tools & Platforms:* Git, VMware, Azure, GCC/G++, Visual Studio IDE
- *Scripting:* Shell, Batch

Strengths:

- Strong foundation in data structures, algorithms, and object-oriented design
- Proficient in developing scalable and maintainable code
- Able to learn new languages and technologies quickly
- Analytical thinker with strong problem-solving abilities
- Excellent communicator, effective in collaborative environments

SELECTED PROJECTS:

Automated AI Image Generation Pipeline: ComfyUI (Node-based), Python, Flux AI model

- Designed and implemented an automated image generation workflow using Python, Discord API, and ComfyUI to streamline and simplify access to the AI model, Flux.
- Developed a robust system that allows users to generate images directly within Discord by integrating Flux's output into a real-time, node-based interface.
- Enabled users to interact seamlessly with the model through Discord, improving overall accessibility and engagement.

Race Condition Delivery System: C/C++, PThread lib, Multithreaded Programming

- Designed a highly efficient multithreaded program simulating a producer-consumer model. Implemented proper synchronization mechanisms, ensuring no race conditions or deadlocks.
- Utilized Posix Thread (pthread) library

Home Ubuntu Lab: System/Network Management, Shell Scripting

- Designed and managed a personal Ubuntu-based automation lab, leveraging Bash and Python scripts for task automation.
- Automated daily tasks: system updates, backups, file organization, and network monitoring using cron and systemd.
- Created custom scripts for media management and cloud synchronization.
- Enhanced technical skills through practical use of open-source tools and automation frameworks.

References available upon request