

KELSEY SHANKS

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SUMMARY

Organized and detail-oriented computer scientist with a passion for problem-solving and innovation. Interested in working with music-related software, but open to working on other applications as well. Focused on improving and strengthening software through data structure and analysis.

EDUCATION

Bachelor of Science, Oregon State University, Corvallis, Oregon Expected June 2026
Bachelors of Science in Computer Science
GPA: 3.95 / 4.0

Master of Music, Oklahoma City University, Oklahoma City, Oklahoma May 2023
Masters of Music in Flute Performance
GPA: 4.0 / 4.0, Summa Cum Laude
Phi Kappa Phi Honors Society
Pi Kappa Lambda National Music Honor Society

Bachelor of Arts, Oklahoma Christian University, Edmond, Oklahoma May 2021
Bachelor of Arts in Music
Minor in International Studies | Honors Program
GPA: 3.85 / 4.0, Summa Cum Laude

RELATED PROFESSIONAL SKILLS

English (Native), Japanese (Basic)
Project Initiation, Planning, Execution, Control, and Closing
Project Tracking and Reporting
Critical Thinking; Problem Solving
Cross-Functional Leadership, Coaching, and Mentoring

TECHNICAL SKILLS

Advanced in MS Office (Word, Excel, PowerPoint, Outlook, Access)
Python module experience: Matplotlib | Tkinter | Pytesseract OCR | OpenCV (cv2) | Pillow (PIL)
Remote tools: Zoom | Teams | VPN
Databases: MySQL | MongoDB
File sharing: Google Drive | OneDrive | DropBox
Programming Languages: C++ | Python | x86 Assembly | JavaScript | HTML | SQL | CLI
Web Tools: Node.js | Express API | REST API | DOM | DBMS | React.js | Mongoose | CSS
Integrated Development Environments: Visual Studio | VS Code | PyCharm | GitHub
Prototype Tools: Figma | Autodesk Sketchbook

WORK EXPERIENCE

Software Developer Intern Sep. 2025 - Present
Toast Ghost LLC, Remote

- Creating a game with scripts and the Unity application, delivering more script-reliant solutions to problems as well as insights on how to organize data and functions.

- Crafting sprites for a game (from drawing to implementation), researching Optical Music Recognition and how to use it, and determining physics for a 2D phone game.
- Inquiring with artificial intelligence tools to learn more about uses of the Unity platform and its capabilities, leading to a full utilization of Unity and its built-in tools.
- Implementing version control tools within Unity to collaborate and 100% avoid deleting other existing code.

Student Services & Student Success Coordinator

Jun. 2023 - Nov. 2024

Oklahoma City University, Oklahoma City, Oklahoma

- Provided accurate, academic advice for all first year and second year students in the School of Music.
- Prevented student failure through monitoring grades and the Early Warning system, providing a semester of 0 loss of music scholarships and 0 new probationary statuses.
- Supplied relevant information for prospective students during tours and orientation, leading to a 60% increase in size of incoming music theater students compared to years prior.
- Crafted a structure to assist in revising and distributing student handbooks and program newsletters, leading to 100% of incoming music students turning handbooks in on time.
- Arranged an accurate system for organizing and implementing performance final exams with ease, resulting in 99% of all results being properly recorded.
- Reported vital enrollment data to the Deans of the School of Music from Salesforce reports and corrected enrollment errors, ensuring all first years correctly enrolled into prerequisite courses.
- Engaged in recruitment endeavors and scholarship decision-making for the School of Music.

Private Flute Instructor

Jun. 2021 - Dec. 2023

Self-employed, Yukon, Oklahoma

- Operated a private studio and instructed 9 middle and high school students on how to play flute.
- Managed all tuition payments, scheduled all lessons, and maintained a collection of scores.
- Improved student musical achievement (e.g. first chair, competition progression).

Librarian, Japanese Tutor, and Music Theory Tutor

Aug. 2017 - May 2021

Oklahoma Christian University, Edmond, Oklahoma

- Undertook inventory checks of each library collection to ensure 100% consistency with existing records.
- Repaired damaged books and t-taped hundreds of new books methodically to maintain quality inventory.
- Relayed functional information by assisting 10-15 patrons a day and directing all front desk incoming calls.
- Provided helpful practice in Japanese speaking and vocabulary to students as requested.
- Tutored students in Music Theory II coursework for retention of necessary information.

LICENCES, CERTIFICATIONS AND TRAINING

Oregon State University Programming Fundamentals Microcredential

ORGANIZATIONS & AFFILIATIONS

Competitions Chair 2025

Oklahoma Flute Society

Jun. 2024 - Dec. 2024

- Created and posted 4 advertisements for organization competitions to maintain relevance.
- Outreached to local flutists to encourage student participation and determine repertoire.

Flute Fair 2024 Co-Chair

Oklahoma Flute Society

May 2023 - Apr. 2024

- Organized and managed lecture and performance proposals thoroughly for the 2024 Flute Fair, bringing in leading voices for musician health, historical performances, and famous performers.
 - Reported and conversed during board meetings to approve budgets, event details, and requirements.
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ADDITIONAL INFORMATION

GitHub: <https://github.com/Kelsey-Shanks>