

DEVON STARR

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EDUCATION

Dartmouth College, Hanover, NH

June 2025

Bachelor of Arts, Major in Computer Science and Minor in Digital Arts

GPA 3.92/4.0

Activities: Robotics Club, DALI Lab, Data Visualization for *The Dartmouth*, Zeta Psi Fraternity, Undergrad Teaching Assistant
Relevant Coursework: Problem Solving via Object Oriented Programming, Software Design and Implementation, Intro to Applied Computer Science, Discrete Math in Computer Science, Computer Graphics, Full-Stack Web Development, Database Systems

PROJECTS

dPiction, Full-Stack Web Game

August 2023 – Present

- Designed/assembled a web Pictionary game from scratch. The frontend uses Node/Vue.js and JavaScript's WebSocket API as well as Tailwind CSS for styling. The backend uses Bun.js and its built-in WebSocket functionality, along with a custom, Express-like API server module which I built from scratch as well. Game data is stored on the Bun server in custom data structures I designed for efficiency, and the frontend and backend are heavily typed with Typescript.

Cookie Clicker but You Type, Unity 2D Steam Game

August 2020 – October 2021

- Designed and produced a desktop game which utilizes an addictive progression system adapted from the famous game *Cookie Clicker* to help players practice typing in an enjoyable and effective way.
- Published the game on the Steam store, and it has been played by thousands of people in over 20 different countries.

Intrepid, React Native App

May 2023

- Developed frontend and backend for a React Native app which encourages users to step outside their comfort zones by letting them complete challenges to earn points and use those points to create custom challenges for others to complete.
- Backend uses Express.js and Mongoose to store all user/app data in MongoDB. User submissions are stored on AWS S3.

MemoryScape, Unity VR App

March 2023 – June 2023

- Led development of a VR time capsule experience which connects to Google Photos and Spotify to bring users back to their past, procedurally generating an immersive memory room with their photos and music from a time period of their choosing.
- Utilized Unity web requests along with Google and Spotify API authentication and data retrieval endpoints to access user data and a firebase database system to store it.

Dali Museum Eye Tracking Exhibit, Unity 3D App

January 2022 – June 2022

- Developed a digital museum exhibit for the Salvador Dalí Museum in St Petersburg, FL, which uses eye tracking to inform users about their viewing patterns when looking at different Dalí paintings.
- Traveled to St Petersburg with the team to present the exhibit to the museum chairs and guide them in using the software.

Veridium, Unity VR App

September 2022 – March 2023

- Built an interactive VR app for a professor in Dartmouth's chemistry department, which visualizes crystal structures.
- Created a system for storing and generating complex, scalable 3D crystal structures in Unity.

RELEVANT EXPERIENCE

DALI Lab, Dartmouth College, Hanover NH

January 2022 – August 2023

Software Developer

- The DALI lab is a highly selective group at Dartmouth which utilizes scrum/agile methodologies as well as teams of developers and designers to create software projects for partners around the world.
- I have worked as a Unity 3D/VR and a mobile application developer. Most recently I led development of MemoryScape.

Teaching Assistant, Dartmouth College, Hanover NH

September 2023 – November 2023

- Assisting students in COSC 050 - Software Design and Implementation, providing guidance on software design principles, C programming, Unix development tools, debugging, testing, and Git usage.
- Conducting regular office hours, grading assignments, and helping students develop skills in programming and teamwork.

Neptune Flood Insurance, St Petersburg, FL

September 2023 – December 2023

Software Engineer Intern

- Working directly with senior developers on .NET Framework/C# backend as well as Vue.js frontend and PostgreSQL DBMS

SKILLS & INTERESTS

Technical: Unity 2D/3D/VR, C#, TypeScript, Java, React, React Native, Vue.js, Express.js, RDBMS, MongoDB, C, C++, SQL

Interests: Alarm Clocks, Drumming, Math, Racket Sports, Mechanical Keyboards, Weightlifting, Snowboarding, Climbing