

MATTHEW BLAM

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EDUCATION

Orange County High School of the Arts

2024 - 2020

- Valedictorian With Distinction, AP Scholar With Distinction
- GPA: **4.61** *Weighted*, **3.96** *Non-Weighted*

SKILLS

Languages: Python, Typescript, Javascript, HTML, CSS, Shell, Applescript, AutoIt

Tools: Node.js, React, Tailwind, Electron, MongoDB, Prisma, Selenium, Playwright, Figma

PROGRAMMING PROJECTS

Dexcom Desktop Application

Languages and Tools: Python, Typescript, Node.js, React, Tailwind, Electron

- Developed an application that syncs with Dexcom's continuous glucose monitoring system, allowing users to view real-time glucose readings
- Integrated Electron Inter-Process Communication (IPC) to dynamically transfer glucose data between the backend Python subprocess and the frontend renderer

codengraver

Languages and Tools: Javascript, HTML, CSS

- Built a web application enabling users to create and download images of source code with syntax highlighting for sharing or presenting
- Designed an interactive editor for customizable code appearance, including tools for line highlighting, bolding, italics, and underlining

Cubase2Finale

Languages and Tools: Python, AutoIt, Typescript, Node.js, React, Tailwind, Electron

- Created a bridge between Cubase and Finale for automatic scoring of music projects
- Developed a parser to extract note data from Cubase's XML output and inject it into Finale's XML structure, preserving pitch, duration, and rhythm

WORK EXPERIENCE

Orange County Music & Dance - Music theory classes instructor

2024 - 2022

- Non-profit community arts school offering classes for underserved families

Chipotle - Team member

2024

Utopia - Team member

2024

Norwegian Medical Consulting - Software development: medical billing, database

2023

Caplee Group Inc. - Marketing, graphic design, software development

2023

VOLUNTEER WORK

Assisteens, Assistance League of Irvine - Member

2024 - 2018

Breakthrough T1D (JDRF) - Youth Ambassador

2024 - 2020

PADRE Foundation - Youth Leader

2024 - 2020