
William Mayer

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TECHNICAL PROJECTS

QWJZ (Typed Racket) -

- Programming language built using Typed Racket as the source language.
- Supports arithmetic, booleans, functions, recursion, environment-based memory, mutation, arrays, and a type checking system

Diary App (JavaScript, React, MongoDB) -

- Full stack web development with emphasis on backend work. Building react routes and accessing MongoDB.
- App works as a social media with written work, mostly for personal diary use.

Space Invaders (C#, Unity) -

- ~30 Hour project, used space invaders as a reference but added unique elements like power-ups and different weapon types.

Flappy Bird / Pop The Lock (C#, Unity) -

- ~5 and 3 Hour projects, used them to learn Unity framework
- Almost exact mirror of the originals, only reskinned

Simulated File System (C, Unix) -

- Unix-like system with hierarchical file structure and supports basic Unix functions like mkdir, cd, ls, touch, etc. Also handled file metadata using inodes and binary files.

EDUCATION

- **California Polytechnic State University, San Luis Obispo** - BS in Computer Science, Senior-Standing, June 2027
- **Capistrano Valley High School** - Valedictorian, 4.93 GPA, 12 APs.

SKILLS

- **Programming Languages:** Python, Java, Javascript, SQL Server, C, C#, C++, Racket, RISC-V Assembly, HTML, CSS
- **Frameworks:** Unity, Godot, React, Jest, MongoDB, MockingGoose, NodeJS, Scratch/Code.org
- **Other:** People skills, Leadership, Spanish, Quick learner, Good under pressure, Food safety certified

RELEVANT COURSES (Before June 2025)

- Data Structures and Algorithms [CSC 202 & 203] - Python, Java
- Discrete Structures [CSC 248]
- Computer Organization [CPE 225] - RISC-V Assembly, C
- System Programming [CSC 357] - C, Unix
- Design and Analysis of Algorithms [CSC 349]
- Database Systems [CSC 365] - MySQL, SQL Server, SQL Family
- Programming Languages [CSC 430] - Typed Racket, Pi
- Software Engineering I and II [CSC 308 & 309] - Javascript, TS, HTML, CSS, NodeJS, Agile, MongoDB

WORK EXPERIENCE

theCoderSchool, Mission Viejo, CA

Code Coach

- Teach kids ages 8-16 different programming languages like Python and Scratch.
- Make engaging lesson plans and track students' coding progress

Golden Spoon, Mission Viejo, CA

Server / Shift Manager

- Responsible for running all store operations: opening/closing, serving, stocking, food prep, customer service
- Manage / train other workers

Project Botrylloides Violaceus

Team Member (Computer Science)

- Bioinformatics research lab through Cal Poly. Studying full cell regeneration property of Botrylloides Violaceus. First to map its genome.
 - Responsible for technical assignments, such as converting known genes to their gene ontology
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