

# Daxhiel Perugorria Ruciel

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## EDUCATION

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**The University of Texas at Austin**, Austin, TX  
*Bachelor of Science, Computer Science*

**May 2029**

**Moe and Gene Johnson High School**, Buda, TX  
*High School Diploma*  
GPA: 4.86/4.00  
Rank: 7/604

**May 2025**

## RELEVANT COURSEWORK

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Data Structures, Discrete Math, AP Computer Science A, AP Statistics

## PROJECTS

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**Kwii Programming Language** | *Java, GitHub*

- Designed and implemented an interpreted programming language from scratch, inspired by Crafting Interpreters.
- Built a recursive descent parser, AST (Abstract Syntax Tree) evaluator, and runtime environment supporting variables, control flow, and functions.
- Applied compiler theory concepts (lexical analysis, parsing, runtime environments) to create a modular and extensible interpreter.
- Leveraged Git/GitHub for version control, managing feature branches, commits, and documentation to ensure project scalability and maintainability.
- Gained experience in memory management, language design, and performance optimization.

**Flappy Bird AI Agent using NEAT** | *Python, NEAT-Python*

- Implemented NeuroEvolution of Augmenting Topologies (NEAT) to train an AI agent to play Flappy Bird without pre-defined heuristics.
- Designed and tuned a fitness function to evaluate agents based on survival time and score.
- Applied genetic algorithms (selection, crossover, mutation, speciation) to evolve neural network topologies across generations.
- Achieved an agent capable of autonomously learning optimal navigation strategies, showcasing neuroevolution and reinforcement learning principles.

## LEADERSHIP & COMMUNITY INVOLVEMENT

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**Austin Spanish First**, Austin, Texas  
*Co-Director of AudioVisual*

**November, 2020 - Current**

- Directed a 10+ member technical team, delegating tasks and coordinating efforts to deliver seamless audio/visual experiences for 400+ weekly attendees.
- Led the redesign and optimization of audio/streaming infrastructure, improving broadcast quality and increasing online viewership by 50%.
- Fostered a collaborative, team-oriented environment, mentoring new members and ensuring effective communication across technical and non-technical stakeholders.
- Gained experience in project leadership, technical problem-solving, and cross-functional teamwork.

## SKILLS

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**Technical/Computer Skills:** *Java, Python, JavaScript, React, Node.js, SQL*

**Certifications:** *Python, Java*

**Languages:** *English, Spanish*