DAXHIEL PERUGORRIA RUCIEL

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EDUCATION

University of Texas at Austin – Austin, TX
Bachelor of Science in Computer Science   **May 2029**

Moe and Gene Johnson High School – Buda, TX   **August 2021 - May 2025**
High School Diploma
GPA: 4.86/4.00
Rank: 7/604

RELEVANT COURSEWORK

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

PROJECTS

RateMyPlate | *React, TypeScript*
- Built a mobile platform empowering UT Austin students to rate and explore campus dining dishes, combining visual appeal and nutritional insights to promote healthier, community-driven food choices.
- Developed using React Native, Expo, and Supabase, featuring secure university-email authentication and real-time data collection for future personalized meal recommendations.
- Fostered community engagement through gamified food challenges and user-submitted dining hall content, turning everyday campus meals into an interactive and data-informed social experience.

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.

Flappy Bird AI using NEAT | *Python, NEAT-Python*
- Implemented Reinforced Learning to train an AI agent to play Flappy Bird without pre-defined heuristics.
- 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.

ACTIVITIES

Austin Spanish First – Austin, TX   **November 2020 - Current**
Co-Director
- 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.

ADDITIONAL

- Technical Skills: Java, JavaScript, React, Expo, Supabase, Express, Next, NEAT, SQL
- Work Eligibility: Eligible to work in the U.S. with no restrictions