Rondalph taylor

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Education

Rensselaer Polytechnic Institute   Expected Graduation May 2027
Bachelor of Science in Computer Science (GPA: 3.72 / 4.00)   *Troy, New York*
- **Relevant Coursework:** Data Structures(C++), Computer Architecture and Operating Systems(C), Intro to CS(python)

Projects

Lingo Buddy | *React.js, Next.js,Python,Fast API*
- Designed and shipped 10 interactive components in React/Next.js + Tailwind, enabling users to converse across 5 languages in real time (latency ¡ 200 ms).
- Integrated GPT-4o (dialogue generation), Whisper (speech-to-text), and ElevenLabs (voice synthesis) to power multilingual voice chat, reducing API latency by 45%.
- Coordinated with backend engineers to pipeline audio streaming and state sync, achieving 50% smoother UX transitions

Mayhem | *React.js, Express.js, Next.js, PostgresSQL*
- Designed a fully responsive frontend UI using Next.js + TailwindCSS, improving cross-device usability by 40% and enabling dynamic feeds, challenge discovery, and real-time progress updates.
- Built and deployed RESTful APIs in Express.js to manage challenge logic, scoring, and progress tracking, reducing request latency by 35% through optimized PostgreSQL queries and indexing.
- Architected a normalized PostgreSQL schema supporting leaderboards and historical performance
- Integrated secure JWT and Google OAuth 2.0 authentication for seamless multi-platform login

Digital OC | *Python, Pandas, Polars, scikit-learn, TensorFlow, Matplotlib, Jupyter Notebook*
- Collaborating with a team of 15 developers to build a predictive analytics system using NFLverse play-by-play data for offensive strategy optimization.
- Developing and testing data pipelines in Python with Pandas, Polars, and Jupyter Notebooks to preprocess and analyze large sports datasets
- Experimenting with scikit-learn and TensorFlow models to identify key play features impacting success rates.
- Engineered a predictive model using NFLverse play-by-play data that classifies plays as run or pass with 90% accuracy.

Experience

Rescu Wellness   Jan 2022 – Aug 2025
Wellness Assistant   *Scarsdale, New York*
- Helped clean and operate machinery including red light, pulsed electromagnetic therapy, and emsculpt
- Led Division 1-3 athletes in mobility, stretching and strength workouts: improved client retention 40%
- Designed posters with qr codes that drove 500+ scans converting 300 new leads
- Took sales calls and resolved issues, increasing positive reviews by 15%

RPI Club Basketball   Oct 2024 – Present
Secretary   *Troy, New York*
- Manage team communications for a 20 member team designed social media content increasing engagement by 3x, posters, and merchandise, boosting team visibility and engagement.
- Organize schedules and announcements, applying teamwork, collaboration, and dedication learned from competitive basketball to support team success.

Technical Skills

Languages: C, C++, Python, JavaScript, TypeScript, Java, SQL, HTML, CSS
Frameworks & Libraries: React.js, Next.js, Express.js, Node.js, TailwindCSS, Supabase, PostgreSQL, TensorFlow, scikit-learn, Pandas, Polars, NumPy, Matplotlib
Developer Tools: Git, GitHub, VS Code, Jupyter Notebook, Postman, Vercel, Render, Docker (basic), LaTeX
Concepts: RESTful API Design, Authentication (JWT & OAuth 2.0), Database Schema Design, Object-Oriented Programming, Data Structures & Algorithms, Machine Learning, Agile/Scrum Methodology