Simon Lunay

937 992 1277 | simonlunay@gmail.com | linkedin.com/in/simonlunay | simonlunay.com **EDUCATION**

The Ohio State University, College of Engineering

Columbus, Ohio

Bachelor of Computer Science and Engineering (AI Specialization), Minor in Mathematics

Expected May 2027

- Dean's List (all semesters), Trustees Scholarship

GPA: 3.8

- Member of Code4Community, AI Club
- Relevant Coursework: Data Structures and Algorithms 1 and 2, Object Oriented Programming 1 and 2 (Java), Computer Architecture, Web Apps (JavaScript), Operating Systems, Discrete Math, Linear Algebra, Engineering Stats

WORK EXPERIENCE

Research Software Engineer

September 2025 - Present

Pease Lab @ Ohio State University

Columbus, Ohio

- Condensing 500M+ datapoint MySQL database into binary string encodings for storage and query efficiency, reducing query execution times by 35-40% with fellow researchers and engineers
- Reducing page load times by 20% for end-users by optimizing PHP database queries for a full-stack web application displaying genomic and georeferenced accession data (HTML/CSS/JavaScript frontend)

Software Engineering Intern ICL Equipment Co.

May 2024-August 2024, May 2025-August 2025

Xenia. Ohio

- Maintained and optimized SQL queries, improving data retrieval performance by 30%
- Developed a **Python** script to manage sales data and automate daily logging of transactions
- Integrated **RESTful APIs** and caching mechanisms, improving system efficiency by 20% and reducing latency **Certified Trainer** Ianuary 2022 – August 2023 Chipotle Mexican Grill Beavercreek, Ohio
- Trained new hires in any position and supplied them with the tools to become successful employees
- Facilitated onboarding and training for 15+ new hires, improving **team productivity** and retention

PROJECTS

FitAI | React, Gemini API, SQL, TensorFlow, JavaScript

October 2025 – December 2025

- Developed a full-stack fitness web app with a React frontend targeting university-specific workout plans and dietary suggestions, with an expected result of 1.5-2.5 million students starting in the gym
- Generated user-personalized fitness plans through a TensorFlow.js body scan analyzing body-pose landmarks, joint angles/alignment, and body proportions/symmetry to estimate user's body metrics with a 5% margin of error
- Engineered a health-oriented chatbot powered by Gemini's API, leveraging a Supabase-hosted PostgreSQL database to provide tailored responses using 10+ campus-based data tables

JCL Equipment Website | HTML/CSS, JavaScript, Node.js, SQL

May 2025 - June 2025

- Built a full-stack website for a local business to give the company a more professional online presence
- Drove a 40% increase in customer engagement through a revamped, user-friendly design
- Developed 30+ pages using HTML, CSS, and JavaScript frontend with a Node.js backend, integrated with a **SQL** database that enables the business owner to update the Used Parts for Sale page independently

AI Stat/Fantasy Predictor | React, AI/Scikit-learn, Express, Python

June 2025 – August 2025

- Built an AI stat predictor using Python and Scikit-learn for machine learning and an Express backend API
- Featuring a dynamic **React frontend**, delivering a smooth and interactive user experience with fast searching
- Achieved a 10% margin of error with the predictor by training a Scikit-learn regression model
- Enabled 20+ fantasy league members to make more informed drafting decisions

SKILLS

Languages | Python, JavaScript, Java, C/C++, SQL, HTML/CSS, Assembly

Frameworks and Tools | React, Node.js, Express.js, GitHub, ML Libraries, VS Code, RESTful API, Scikit-learn, Gemini API