Simon Lunay

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

The Ohio State University, College of Engineering

Bachelor of Computer Science and Engineering

- Dean's List (all semesters), Trustees Scholarship
- Member of Code4Community, AI Club
- Relevant Coursework: Linear Algebra, Calculus 1 and 2, Engineering Stats, Fundamentals of Engineering 1 and 2, Fundamentals of Higher Math, Data Structures and Algorithms 1 and 2

WORK EXPERIENCE

Research Software Engineer

Pease Lab @ Ohio State University

September 2025 - Present

Columbus, Ohio

- Collaborating with fellow researchers and engineers to condense **500M+** datapoint **MySQL** database into binary string encodings for storage and query efficiency, reducing query execution times by **35-40%**
- Interacting with/enhancing **PHP-based frontend** displaying genomic and georeferenced accession data, reducing page load times by **20%** for end-users

Software Engineering Intern

JCL Equipment Co.

Xenia, Ohio

Columbus, Ohio

GPA: 3.8

Expected May 2027

- 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
- Reverse-engineered a paint spray gun and all the internal components

Certified Trainer

Chipotle Mexican Grill

January 2022- August 2023

May 2024-August 2024, May 2025-August 2025

Beavercreek, Ohio

- Trained new hires in any position and supplied them with the tools to become successful employees
- Developed my ability to work alongside and train all different kinds of people

PROJECTS

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 independently update the Used Parts for Sale page
- Collaborated weekly with the majority stakeholder to ensure the website met their standards

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
- Achieved a 10% margin of error with the predictor
- Enabled 20+ fantasy league members to make more informed drafting decisions

Accessible Mouse | *AutoCAD*, *CircuitPython*, *Windows Accessibility API*

January 2024 - April 2024

- Built a functional mouse that enhances day-to-day experiences and gaming for people with hand deformities
- Worked closely with people with hand deformities to ensure the mouse met all their needs
- Used **AutoCAD** to design shape, size, and button placement
- Programmed the microcontroller using **CircuitPython** to read inputs from mouse signals
- Utilized the **Windows Accessibility API** to implement standard mouse behavior with added accessibility options, such as configurable gestures and input mapping

SKILLS

Languages | Python, JavaScript, Java, C/C++, SQL, HTML/CSS, Assembly **Frameworks and Tools** | React, Node.js, Express.js, GitHub, ML Libraries