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 Expected May 2027
- Dean's List (all semesters), Trustees Scholarship GPA: 3.8
- 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 Developer September 2025 - Present
Pease Lab @ Ohio State University 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 Intern May 2024-August 2024, May 2025-August 2025
JCL Equipment Co. 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
- Reverse-engineered a paint spray gun and all the internal components

Certified Trainer January 2022– August 2023
Chipotle Mexican Grill 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
- A full-stack website built for a local business to give the company a more professional look
- This revamped website has already allowed for an increase in customer engagement by 40%
- Includes 30+ pages, and a backend that allows the business owner to update the Used Parts for Sale page, with parts stored in a database
- 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
- A web app 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
- This predictor has a margin of error of 10%
- This project helped me and others make more informed predictions when drafting our fantasy sports teams

Accessible Mouse | *AutoCAD, CircuitPython, Windows Accessibility API* January 2024 – April 2025
- A fully 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, Assembly
Frameworks and Tools | React, Node.js, Express.js, GitHub, ML Libraries