

# Simon Lunay

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## EDUCATION

### The Ohio State University, College of Engineering

Bachelor of Computer Science and Engineering

Columbus, Ohio

Expected May 2027

GPA: 3.8

- 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

- 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, while interacting with/enhancing PHP-based frontend displaying genomic and georeferenced accession data

### Software Engineering Intern

JCL 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

Chipotle Mexican Grill

January 2022- August 2023

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

### 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
- 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 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

### 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, VS Code, RESTful API, Scikit-learn