

# Simon Lunay

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## EDUCATION

### The Ohio State University, College of Engineering

B.S in Computer Science and Engineering (AI Specialization), Minor in Mathematics

Columbus, Ohio

Expected May 2027

GPA: 3.8

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

- 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

### Lead Developer

Columbus/Central Ohio Colleges Agency (CCOCA)

November 2025-Present

Columbus, Ohio

- Improving digital outreach and accessibility across Central Ohio through leading **full-stack React, Node.js, and SQL** projects for **10+** nonprofit clients
- Driving delivery of responsive and accessible web platforms by directing a **5-member** development team
- Streamlining workflows and ensuring projects align with each nonprofit's mission and impact goals by acting as primary liaison between clients and developers

### Research Software Engineer

Pease Lab @ Ohio State University

September 2025-Present

Columbus, Ohio

- Optimizing query times by **35-40%** by condensing a **500M+** datapoint **MySQL** database into binary string encodings, enhancing storage and retrieval efficiency in collaboration with 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

JCL Equipment Co.

May 2024-August 2024, May 2025-August 2025

Xenia, Ohio

- Boosted database efficiency by **30%** by profiling and refactoring **SQL** queries for faster data retrieval
- Saved **10+ hours per week** through a custom **Python** script that automated manual transaction logging
- Integrated **RESTful APIs** and caching, improving system efficiency by **20%** and reducing latency

## PROJECTS

### FitAI | [GitHub](#) — *React, Gemini API, SQL, TensorFlow, JavaScript*

October 2025–December 2025

- Developed a **full-stack** web application using **React.js** and **TailwindCSS**, providing university-specific workout/nutrition plans, increasing student engagement with campus gyms by **~30%** during pilot testing
- Implemented a 3D body scan tool with **5% margin of error** using **TensorFlow.js** pose detection and body proportion analysis
- Engineered a **health-oriented chatbot** integrating the **Gemini API**, leveraging a **Supabase-hosted PostgreSQL database** to provide tailored responses using **10+** campus-based data tables

### JCL Equipment Website | [GitHub](#) — *HTML/CSS, JavaScript, Node.js, SQL*

May 2025–June 2025

- Constructed a **30+ page full-stack** website with **HTML, CSS, and JavaScript** frontend to give the company a professional online presence and boost online engagement by **40%**
- Devised a self-service content management tool enabling non-technical staff to update site inventory via a **Node.js + SQL** backend

### AI Stat/Fantasy Predictor | [GitHub](#) — *React, AI/Scikit-learn, Express, Python, Pandas*

June 2025–August 2025

- Formulated a machine learning platform using **Python, Pandas**, and **Scikit-learn** to forecast NFL and NBA player stats, achieving **~10%** prediction error across large datasets
- Enabled real-time fantasy analytics through an **Express API** and interactive **React** dashboard, allowing users to make data-driven lineup and trade decisions instantly

## SKILLS

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

**Frameworks, Databases & Cloud** | React, Node.js, Express.js, Next.js, GitHub, VS Code, RESTful API, AWS, PostgreSQL

**ML/AI & Data Tools** | TensorFlow.js, Scikit-learn, Gemini API, PyTorch, OpenCV, Pandas