

Naveen Kamath

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EDUCATION

The Ohio State University – Main Campus | Columbus, OH

B.S. in Computer Science and Engineering | GPA: 3.5 | Minor: Biomedical Engineering

May 2027

Relevant Courses: Computer Organization and Assembly Language, Data Structures and Algorithms, Object-Oriented Programming, Digital Logic Design, Discrete Structures, Fundamentals of Engineering

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS, Dart, SQLite, REST API

Frameworks: React.js, Flutter, Flask, Computer-Aided Design (CAD), OpenCV, PyTorch, NumPy, Pandas, Tailwind CSS

Concepts: Machine Learning, Deep Learning, Object-Oriented Programming, Network Systems, Game Design

Tools/Technologies: Git, GitHub, VS Code, Microsoft Office, Google Workspace, Android Studio, Unity, Unreal Engine 5

TECHNICAL EXPERIENCE

Ohio State Wexner Medical Center | Undergraduate Research Assistant | Columbus, OH Aug 2024 - Present

- Developed a mobile health application in **Flutter** to be used in a **clinical trial** on Gestational Diabetes
- Created features to log biometrics from **Apple Health Kit** to an encrypted **SQLite database** and **OAuth 2.0**
- Implemented an **LSTM Deep Learning** model analyzing **120,000+** CGM data points per participant; achieved 0.0002–0.0033 MSE (normalized) for 5–30 min glucose predictions

Air Force Research Laboratory | Software Engineer Intern | Dayton, OH

June 2024 - Aug 2024

- Developed a multiplayer touch screen application in **Unreal Engine 5** for a research study **used by 10 C-130 pilots**
- Implemented **game state management** and **system networks** for seamless multiplayer functionality
- Analyzed 10+** CSV files with local outlier factor **Machine Learning** algorithm to determine the optimal flight time

Air Force Research Laboratory | Software Engineer Intern | Dayton, OH

June 2023 - Aug 2023

- Created a **Mixed Reality** elevated radial maze in **Unity** for a research study on the efficacy of a laser deterrent
- Developed **3 objectives** (shooting targets, retrieving objects) and **collected 2 biometrics** (heart rate, pupil dilation)

PROJECTS

Degree Audit Parser | HackOH/IO 12 Project | [GitHub](#)

Oct 2024

- Led** a team of four to **develop a web app** in **React.js** to present missing course details with responsive UI design
- Connected the backend to the frontend using **Axios** to handle API requests, integrating **OSU Class Search API**
- Engineered **10+ reusable React components**, 20% reduction in page load times and enhancing functionality

Lanarchy OSU Club Website | Personal Project | [Website](#)

July 2024

- Engineered a responsive web application using **React.js** and **Tailwind CSS**, resulting in a 30% increase in new member recruitment for the LANarchy OSU club
- Architected and implemented **8+ reusable and modular React components**, optimizing responsive UI elements.
- Deployed and managed the application using **GitHub Pages** for seamless web hosting and version control integration

Look2Type | Hack/AI 8 Project | [GitHub](#)

February 2024

- Developed a digital keyboard using webcam **eye tracking**, enabling users with **locked in syndrome** to type with eyes
- Preprocessed and annotated **over 800 images** to train a gaze direction prediction model in **PyTorch** achieving **0.7 bits of throughput** enhancing prediction efficiency and responsiveness for real-time user interaction

LEADERSHIP EXPERIENCE

Chief Technology Officer/Founding Member | LANarchy Club

Aug 2024 - Present

- Scaled** the club from **0 to over 250 members** in four months by creating a website and eye catching flyers
- Managed** and planned 4 hour **LAN parties** with **40 participants** and provided **technical support** to club members
- Engineered a bot leveraging **Discord REST API** and **Google Sheets API** to track club member statistics in real-time