

Nayef Jaber

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Education

California State University, East Bay

Expected May 2028

Bachelor of Science in Computer Science with a Minor in Data Science (GPA: 4.00 / 4.00)

Hayward, CA

- **Relevant Coursework:** Data Structures and Algorithms (C++), Computer Science II (C++), Computer Science I (Python), Computer Organization and Assembly Language, Computing and Responsibility, Numerical Algebra and Linear Algebra, Statistical Inference, Discrete Structures, Calculus II, Calculus I

Experience

ASA Datathon 2025 🏆

April 2025

Data Science Participant

California State University, East Bay

- Collaborated in a cross-functional student team during an in-person, 48-hour data analysis challenge hosted at CSUEB.
- Cleaned and analyzed a real-world dataset using Python libraries (Pandas, NumPy, Seaborn, Matplotlib) to uncover insights and data-driven recommendations.
- Delivered a presentation to judges summarizing key findings through visualizations and a narrative focused on real-world impact and interpretability.

Projects

MALABIS: Digital Wardrobe Organizer 🏆 🌐

MongoDB, Express.js, React.js, Node.js, Cloudinary, Sharp

- Built a full-stack MERN web application for uploading, categorizing, and managing clothing items in a personal smart wardrobe.
- Integrated Cloudinary and Sharp for automatic background removal, image optimization, and cloud storage of user-uploaded images.
- Designed a mobile responsive UI with modern animations and uploading for a smooth user experience.
- Enabled secure user authentication with Passport.js and managed persistent sessions via MongoDB-backed session storage.

AI-Powered Daily Calendar Summarizer 🏆

Python, Google Calendar API, OpenAI, Twilio

- Developed a Python script that fetches daily Google Calendar events, summarizes them using OpenAI's GPT models, and sends a natural-language briefing via SMS using Twilio.
- Integrated Google Calendar API for event retrieval, OpenAI API for natural language summarization, and Twilio for automated SMS delivery.

Encrypted Password Manager 🏆

C++, Qt6, CMake, QCryptographicHash, QTableWidgetItem

- Developed a desktop password manager with a secure Qt6 GUI for encrypted credential storage and retrieval.
- Implemented login authentication using SHA-256 hashing and a master password to restrict access to stored credentials.
- Designed an interface to add, delete, and view website login details using QTableWidgetItem and dialog prompts.
- Built custom XOR-based encryption/decryption logic for obscuring passwords in memory and on display.
- Packaged application with CMake and ensured compatibility with Windows systems using MinGW and C++17.

Personal Budget Tracker 🏆

Java, Object-Oriented Programming, File I/O, CLI

- Built a command-line budget tracking tool for managing income and expenses using object-oriented design principles.
- Designed and implemented core classes for budgets and transactions, supporting both income and categorized expense types.
- Enabled persistent data storage through file I/O operations, allowing users to retain budgeting data across sessions.
- Developed interactive CLI menus to add transactions, view summaries, and analyze category-based spending trends.

Technical Skills

Languages: Python, C++, C, Java, JavaScript, HTML/CSS, SQL, Assembly

Frameworks/Libraries: React.js, Node.js, Express.js, Pandas, NumPy, Seaborn, Matplotlib, Qt6

Tools: Git/GitHub, VS Code, Jupyter Notebook, PyCharm, Vercel

Databases: MongoDB, SQLite, MySQL