

# Clarissa Aurelia Nahid Saputra

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## Experience

### RuangGuru

Jun 2025 – Aug 2025

Software Engineering Intern

Jakarta, Indonesia

- Developed interactive animations for learning Data Structure and Algorithms using React.js and GSAP, enhancing user engagement and retention.
- Built a Node.js CLI tool that syncs animation code with voiceovers by generating script timestamps via ElevenLabs API and using prompt-engineered Gemini API calls to adjust animation timing—automating alignment and boosting production efficiency by 90%.

## Projects

### TripTailor: AI Itinerary Generator (Hackathon) | [Next.js](#), [Express.js](#), [LangChain](#), [GroqAPI](#), [SerpAPI](#), [Supabase](#)



- Developed and designed a full-stack AI travel planning web app using Next.js and Express.js, integrating multiple APIs for comprehensive itinerary generation.
- Engineered an intelligent AI agent leveraging LangChain and Groq LLM APIs, integrated with SerpAPI for real-time flight search and hotel data retrieval.
- Built Supabase authentication system with real-time database operations for user management and persistent chat history storage.

### Lock your phone in: Avoid phone distractions study web app | [React.js](#), [TensorFlow.js](#), [Supabase](#)



- Developed a full-stack productivity web app that leverages TensorFlow.js for real-time object detection, identifying phone usage to promote focused study sessions.
- Engineered a GitHub-style analytics dashboard to visualize user session data, stored and authenticated via Supabase, providing users with insights on their productivity.

### Who are you by music | [React.js](#), [Gemini API](#), [Supabase](#), [SpotifyAPI](#)



- Built a web app that authenticates users via Supabase and analyzes their Spotify listening data to create personality insights.
- Designed and integrated a prompt-optimized Gemini API pipeline to dynamically generate rich and engaging user descriptions based on Spotify data.

### AI Tweet Generator | [Next.js](#), [FastAPI](#), [PyDantic](#), [GeminiAPI](#), [SQLite](#), [Docker](#)



- Engineered an intelligent AI agent using PyDantic that extracts linguistic features from user tweets and generate contextually similar content.
- Built full-stack application with Next.js frontend and Python FastAPI backend, implementing real-time AI agent processing for tweet analysis and content generation workflows.

## Education

### University of California, San Diego

2025-2029

Incoming Computer Engineering Undergraduate

San Diego, United States

### SMAN Unggulan M.H. Thamrin

2022-2025

Valedictorian – National and A Levels curriculum (GPA: 96/100 with A\*A\*A)

Jakarta, Indonesia

## Awards and Activities

**Awards:** Honorable Mention IPhO, Honorable Mention APPhO, Best Theory & Bronze Medal National Science Olympiad (Physics), Beamline for Schools Shortlist, First Place Electrical Engineering Competition Technocorner

**Activities:** Influencer with 140k+ followers in total, Student Council Vice President, Co-founder of Environmental Nonprofit, Founder of Free Tutoring Program, Academy of Champions Gameshow Cast

## Technical Skills

**Languages:** Javascript, Python, C++

**Technologies:** HTML, CSS, React.js, Next.js, Figma, Flask, Express.js, Mediapipe, TensorFlow, PyTorch, Node.js, MySQL, YOLO, Scikit-learn, Supabase, Firebase, MongoDB, OpenCV, Numpy, Pandas, Matplotlib, Puppeteer, Tailwind, BeautifulSoup, RaspberryPi, Arduino