



Alexis Baranauskas



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Portfolio: www.lexicodes.com

Summary

Full Stack Developer with hands-on experience building web and mobile applications using Java, C, Python, TypeScript, and modern frameworks such as React and Next.js. Strong foundation in object-oriented programming, data structures, and systems-level concepts, with experience translating real user needs into clean, user-centered solutions. Brings practical IT and troubleshooting experience alongside growing exposure to AI, cybersecurity, and UI/UX principles. Motivated to contribute to collaborative engineering teams and continue developing reliable, high-quality software in software engineering, AI, and product-focused roles.

Skills

- Programming: NextJS, CSS, Javascript, HTML, Java, C, Python, Assembly, mobile app development (Android/Kotlin), front-end and back-end web development
 - Software Development: Object-oriented & procedural programming, data structures, algorithms, UI/UX design
 - IT & Technical Support: Hardware troubleshooting, software support, system setup, networking basics
 - AI & Cybersecurity: Knowledgeable in core AI concepts, including the architecture and functioning of large language models (LLMs); familiar with cybersecurity practices and digital design
 - Communication & Customer Service: Customer relations, tech consultations, team collaboration
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Work Experience

Kleos Inc — Software Intern | Remote

01/2025 – 07/2025

- Gained exposure to real-world software development and experience collaborating in team environments
- Contributed to UI/UX solutions, improving usability and feature clarity.
- Assisted with backend stability, maintenance, bug fixes, and performance monitoring.
- Supported experimental AI features through testing, validation, and monitoring model performance
- Created clear, engaging product demos using strong product and technical understanding.

Staples — Tech Associate | Torrington, CT

06/2023 – 12/2024

- Diagnosed and resolved hardware and software issues to improve customer system performance.
 - Configured new computers, performed data transfers, and ensured proper system setup.
 - Provided technical consultations for printers, networking, and peripherals.
 - Delivered customer-focused solutions while promoting tech products and services.
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Technical Experience

Volleyball Rotation Tracker / Coaching Website

10/2025

Technologies: Next.js, React, TypeScript, Tailwind CSS

- Developed a responsive web application translating live volleyball coaching workflows into a digital tool.
- Built an interactive rotation tracker with real-time state management for player positions and substitutions.
- Applied component-based architecture and mobile-first design principles to optimize usability across devices.
- Leveraged personal coaching experience into practical, user-focused features.

Event Finder Mobile App (Android)

05/2025

Technologies: Android, Kotlin, Retrofit, RecyclerView, Glide, etc...

- Developed a fully functional Android app integrating the Ticketmaster API for live event search by category and city.
- Implemented REST API integration, JSON parsing, and asynchronous data handling.
- Built a mobile-first UI with RecyclerView and Glide for efficient image rendering.
- Added network state awareness and error handling to enhance reliability.

Snake Game (Terminal-Based, C)

05/2025

Technologies: C programming, ncurses library

- Co-developed a terminal-based Snake game in C using ncurses as part of a small team.
- Implemented collision detection, dynamic rendering, real-time input handling and performance optimizations.
- Collaborated on architecture design, code integration, and team-based development workflows.
- Debugged performance and display issues including flickering, input freezing, and overlapping spawns.

Kleo AI – UI/UX & Frontend Contributions

01/2025 – 06/2025

Technologies: Next.js, TypeScript, HTML, CSS

- Contributed to UI and UX improvements for Kleo (mykleo.ai), an AI content creation platform.
- Implemented frontend enhancements aligned with product goals and design guidelines.
- Refined user flows, layout consistency, and usability to improve feature clarity and discoverability.
- Collaborated with developers and designers to align UX improvements with product goals.

Kleo AI – Product Demos & Onboarding Content

04/2025

- Created interactive onboarding walkthroughs and video guides to improve feature adoption.
- Translated technical functionality into accessible visual explanations, reducing user friction.
- Used effective AI prompting to generate clear, engaging tutorial scripts.

Research Into Large Language Models (LLMs)

04/2025

- Co-authored a technical research paper analyzing transformer-based LLMs, fine-tuning strategies (SFT, LoRA, ZSL), multimodal extensions, and tool augmentation.
- Evaluated AI limitations including hallucinations, jailbreaks, prompt injection, and data leakage.
- Synthesized complex academic research into a clear, well-structured technical narrative.
- Presented findings to peers, demonstrating strong technical communication skills.

Data Structures & Algorithms Projects

09/2024 – 12/2024

Technologies: Java, Core DSA concepts

- Implemented a Top-15 ranking system using singly and doubly linked lists with optimized insertion and traversal.
 - Built a binary expression parser that constructs and evaluates expression trees using recursion.
 - Designed a two-color double-stack ADT using a single fixed-capacity array, managing memory boundaries.
 - Applied core DSA concepts including linked lists, trees, recursion, abstract data types, and efficient traversal strategies.
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Education

05/2025

Bachelor of Science in Computer Science

Central Connecticut State University, New Britain, CT

- Gained hands-on experience in procedural and object-oriented programming using C, Java, and Python, including assembly language and systems-level programming.
 - Applied data structures and algorithms to solve computational problems efficiently.
 - Built foundational knowledge in AI, cybersecurity, digital forensics, theory of computation, and digital design.
 - Minor in Arabic Language.
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Accomplishments

- Bachelor of Science in Computer Science, May 2025
 - Award for Excellence in Language Study (Arabic) – Spring 2025
 - Dean's List – Spring 2024
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Languages

English:



Native

Arabic:



Limited / Intermediate classroom study

Connect With Me



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