









# Woldemedihn Mezene

Software Engineering Student | Passionate Problem Solver

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 LinkedIn    GitHub    LeetCode    Codeforces

## Profile

I'm a Senior Frontend Engineer with Fullstack experience and 3D Creative Technologist with expertise in modern web development, Three.js, and interactive animations. Built 10+ production-ready projects including immersive 3D experiences, modern e-commerce platforms, and interactive web applications. Demonstrated mastery of React, Three.js, GSAP animations, and competitive programming with 500+ solved challenges. Passionate about creating engaging user experiences through cutting-edge technology and creative problem-solving.

## Education

**Software Engineering, Adama Science and Technology Univesity** 2024 – 2028

CGPA : 3.5/

Relevant Coursework : Introduction to programming (Python), Fundamental of Programming (C++), Data Structures and Algorithms, Database Management, Object Oriented Programming.

**Fullstack Web Application Development, Evangadi** 04/2024 – 04/2025

Evangadi is a dynamic network dedicated to empowering individuals through coding education and mentorship.

Founded by Adugna Bekele, Evangadi aims to transform lives by fostering collaboration and providing resources for those interested in technology careers.

## Skills

### Programming Languages

Python, C++, JavaScript, Java

### Databases

MySQL

### Animation & Graphics:

GSAP, CSS Animations, Canvas API, SVG Animations

### Tools & Frameworks

Git, GitHub, VS Code, Webpack, Vite

### Frontend Development:

React.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, GSAP, React-Three-Fiber

### Problem-Solving

Competitive Programming: LeetCode, Codeforces

### 3D Development:

Three.js, WebGL, 3D Modeling, Animation, Interactive Experiences

## Projects

**Modern Portfolio Website, React, Three.js, GSAP, Tailwind CSS | Personal Brand**

- Built sophisticated portfolio with advanced animations and smooth page transitions
- Implemented 3D background animations and interactive project showcases
- Created responsive design with modern UI/UX principles and accessibility features
- Integrated blog system, contact forms, and dynamic content management

### **3D Interactive Portfolio Experience**, *Three.js, React, GSAP* | *Personal Portfolio*

- Developed immersive 3D interactive room experience with real-time lighting and physics
- Implemented smooth camera controls, object interactions, and dynamic animations
- Created responsive 3D environment with optimized performance for web browsers
- Integrated music player functionality and interactive elements within 3D space

### **iPhone 17 Pro Apple-Inspired Website**, *React, Three.js, GSAP* | *E-commerce Clone*

- Developed pixel-perfect Apple-inspired website with advanced 3D product visualization
- Implemented smooth scroll animations, parallax effects, and interactive product demos
- Created responsive design matching Apple's design language and user experience
- Integrated product galleries, specifications, and purchase flow

### **Flight Booking System**, *React, Node.js, Database Design* | *Travel Platform*

- Developed complete flight booking platform with search, filtering, and reservation system
- Implemented real-time pricing, seat selection, and booking confirmation
- Created responsive design with interactive maps and flight tracking
- Integrated payment processing and email notification systems

### **Snake Game - Modern Edition**, *JavaScript, Canvas API, GSAP* | *Gaming Application*

- Developed modern snake game with advanced graphics and smooth animations
- Implemented responsive controls, score tracking, and progressive difficulty levels
- Created engaging visual effects and sound integration for enhanced gameplay
- Optimized for mobile devices with touch controls and adaptive layouts

### **Chocolate E-Commerce Website**, *React, Three.js, GSAP* | *Product Showcase*

- Built immersive chocolate product website with 3D product visualization
- Implemented interactive product tours and virtual tasting experiences
- Created responsive design with smooth animations and engaging user interface
- Developed product catalog with advanced filtering and recommendation system

### **Crown Hotel Booking Platform**, *Full-Stack Application* | *React, Node.js, MySQL*

- Built comprehensive hotel booking system with real-time availability and booking management
- Implemented user authentication, payment processing, and review systems
- Created responsive design with modern animations and intuitive user interface
- Developed admin dashboard for hotel management and booking analytics

### **PointCar E-Commerce Website**

- Designed and developed a user-friendly platform for buying and selling cars.
- Implemented product search, filter, and sorting functionality to enhance user experience.
- Utilized React for front-end and Node.js for back-end, ensuring smooth performance.

## **Experiences**

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### **Freelance Full-Stack Developer & 3D Creative Technologist**, *Self-Employed*

2023

- **Delivered 10+ production-ready projects** across various industries and technologies
- Specialized in creating immersive 3D web experiences and interactive applications
- Implemented modern development practices including responsive design and performance optimization
- Collaborated with clients to deliver custom solutions meeting specific business requirements

CSEC Problem-Solving Practice

- Actively participate in competitive programming challenges on platforms like LeetCode and Codeforces.
- Developed and optimized algorithms to solve complex problems, improving efficiency and accuracy.
- Solved over 270+ problems

3D Development & Animation Specialist, *Personal Projects* 2022

- Created immersive 3D web experiences using Three.js and WebGL technologies
- Developed interactive animations and visual effects using GSAP and modern CSS
- Implemented responsive 3D graphics optimized for various devices and browsers
- Built custom 3D components and reusable animation libraries

Competitive Programming & Problem Solving, *CSEC Club Member* 2023

- **Solved 500+ programming challenges** across LeetCode, Codeforces, and HackerRank
- Developed efficient algorithms and optimized solutions for complex computational problems
- Participated in coding competitions and hackathons, consistently ranking in top 20%
- Mentored junior students in problem-solving techniques and algorithm design

ACHIEVEMENTS & LEADERSHIP

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- **Project Portfolio:** Successfully delivered 10+ diverse projects showcasing full-stack and 3D development skills
- **Technical Excellence:** Mastered modern web technologies including React, Three.js, and GSAP animations
- **Problem-Solving Champion:** Solved 500+ programming challenges with 85% success rate
- **Academic Performance:** Maintained 3.5 GPA while building extensive project portfolio
- **Community Contribution:** Active CSEC Club member and technical mentor

Languages

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- English
- Amharic