

EMRE SERDAR

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SUMMARY & SKILLS

Software Engineer with **2+ years of experience** in full-stack development and cloud-native microservices. Proven ability to design and implement scalable solutions using modern technologies. Adept at collaborating with cross-functional teams, showcasing strong communication, leadership, and problem-solving skills.

Languages: Python, JavaScript, Java, TypeScript, SQL, GraphQL, NoSQL

Frameworks & Libraries: React.js, Next.js, Node.js, Django REST, Express.js, Jest, Tailwind CSS, SCSS, Bootstrap

Development Tools & Services: Docker, AWS, Vercel, Vite, Webpack, Nginx, Gunicorn, MongoDB, Jira, Github, Figma

Practices: Agile Methodologies, CI/CD, Unit & Integration Testing

PROFESSIONAL EXPERIENCE

Partisepeti, Part-Time Software Engineer – Remote

September 2024 - Present

- Designed and implemented a secure customer review API using Python Django, enabling authenticated users to seamlessly create, update, and retrieve reviews as part of a high-traffic e-commerce platform.
- Integrated robust authentication protocols with data anonymization to ensure only verified customers access the review system, protecting sensitive operations and privacy while meeting data protection standards.
- Enforced review validation to block fake reviews, increasing platform authenticity.

Kopernik Observatory & Science Center, Software Engineer – Vestal, NY

August 2022 - July 2023

- Spearheaded the design and implementation of a live satellite tracking REST API using Python, Django, and MySQL, improving data retrieval speed by 80% and streamlining real-time tracking.
- Migrated WordPress app and DB to AWS EC2/RDS, reducing response times by 40% and enhancing scalability.
- Deployed the Django API server on an EC2 Linux machine using Nginx and Gunicorn, ensuring robust performance, high availability, and efficient load balancing under varying traffic conditions.

Acun Medya, Front-End Development Intern – Remote

May 2022 - August 2022

- Built responsive web applications using Next.js, React, and TypeScript, ensuring seamless user experiences and promoting modular, reusable code across multiple small-scale applications.
- Developed custom hooks and intuitive UI components that streamlined workflows and reduced build times, showcasing a proactive approach to front-end challenges.
- Collaborated with senior developers and designers in an agile setting, integrating Tailwind CSS to create adaptive interfaces and boost user engagement.

EDUCATION

Binghamton University, State University of New York

- Master of Science in Computer Science
- Bachelor of Science in Computer Science

Graduated in December 2024

Graduated in May 2022

PROJECT EXPERIENCE

Cloud-Native Microservices Application for AI Language Platform (Master's Capstone Project)

- Developed a scalable cloud-native microservices platform integrating multiple LLMs with JWT authentication, containerized services via Docker, and a dynamic React.js frontend.

Freelance Personal Blog React Application

- Engineered a custom blog app with Next.js, React.js, and Tailwind CSS, featuring responsive components, a Hygraph-powered GraphQL API, and optimized performance with Static Site Generation.

Personal Portfolio React Application

- Created a personalized portfolio app using React.js with Express.js and automated CI/CD via GitHub Actions.