

Mark Bakos

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TECHNICAL SKILLS

Frontend Development: React, Next.js, Vue.js, Tailwind, Avalonia UI

Backend Technologies: Node.js, Express, NestJS, FastAPI, Spring Boot, Flask, .NET

Programming Languages: Python, TypeScript, JavaScript, C#, Java, Kotlin, Go

Databases: MongoDB, PostgreSQL, MySQL

Tools: Git, GitHub, Postman, Docker, Bash

Machine Learning: TensorFlow, SciKit-Learn

EXPERIENCE

Digital Nexus AI

June 2025 – October 2025

Full-Stack Developer Intern

Remote

- Built dynamic, responsive interfaces and boosted UI performance by modularizing React components with TypeScript and Next.js, improving maintainability across **2** major internal projects.
- Developed, integrated and optimized RESTful APIs using Express and Node.js, speeding up average response times by **70%** and increased feature delivery time by **25%**.
- Completed training on TypeScript, Redux, and REST API design, applying it to real-world projects within 2 weeks of onboarding.

PROJECTS

IntelliJ TO-DO Manager Extension | *Kotlin*

Mar 2025 – Present

- Published on JetBrains Marketplace with a **4.45 rating**, providing developers with a sophisticated, native task management tool, used by over **5,000 users**, inside IntelliJ IDE.
- Designed a clean, distraction-free UI with task tagging, prioritization, and filtering features—reducing friction in developer productivity workflows by up to **30%**.
- Engineered a robust Kotlin-based extension that seamlessly integrates with IntelliJ's plugin ecosystem, providing developers with an native task management solution directly within their coding environment

BuddyUp | *TypeScript, Next.js, NestJS, PostgreSQL, Docker*

February 2025 – April 2025

- Built BuddyUp, a professional networking platform with TypeScript, Next.js, NestJS, PostgreSQL, and Docker.
- Architected a scalable microservices backend with Express, NestJS, and PostgreSQL, implementing secure JWT/OAuth2 authentication flows. Streamlined token issuance and session handling to improve reliability and maintain average API latency under **200ms** across all auth endpoints.
- Engineered a responsive, accessible UI using ShadCN, Tailwind CSS, and Next.js, achieving **100%** Performance and SEO scores on Google PageSpeed (mobile & desktop) and a **95+** Lighthouse accessibility rating

Location Guesser | *TensorFlow, Python, Next.js, Tailwind, FastAPI*

Jan 2025 – Feb 2025

- Developed a dual-task geolocation model using TensorFlow + EfficientNetV2S on a 60,000-image dataset, achieving **83% city classification accuracy** across five international capitals and **sub-5km** coordinate regression.
- Built a full-stack ML application with FastAPI (backend) and Next.js (frontend), delivering predictions in under **800ms**
- Accelerated data collection by **500%** via parallel Mapillary API streaming, preprocessing 224×224 images, and integrated GRAD-CAM visualizations to improve model interpretability and support explainable AI practices.