

Amirsaleh Naderzadeh Mehrabani

Software Developer

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Summary

Software engineer with 3+ years of experience in developing and delivering high-quality software. Proven ability to work independently and as part of a team, and to meet deadlines under pressure. Strong problem-solving and analytical skills.

Experience

Software developer – [Mondial3d.com](https://mondial3d.com) / [Mondial3d.studio](https://mondial3d.studio) / [Mondialai.de](https://mondialai.de) – [Oct 2023 – Aug 2024]

- Develop Service Center for AI based calling center, automated chat box customer service and automated chat room customer service.
 - Restructure and develop new platform to replace Terminplanung für Arztpraxen.
 - Develop AI Call Center using Nextjs, Tailwindcss and SignalR.
 - Develop dashboard platform for managing services.
 - Develop Automated Chat Box no-code template for customers.
 - Develop Automated Chat Room no-code template for customers.
 - Create embedded code generator – (see the use case inside the [Mondial3d.com](https://mondial3d.com))
 - Develop AI pipeline for Voice Dialization, Voice Transcription and Speaker Recognition – (use case: AI based Call center inside the [Mondialai.de](https://mondialai.de)).
 - Develop multilingual website - [Mondialai.de](https://mondialai.de)
- Develop Blender Plugin using Python and Bpy python library - [Github](https://github.com).
 - Multithread processing – Downloading GLTF files from server and Save into tempt directory in the additional processing thread
 - Creating Authentication Partition in Mondial Blender Addon
 - Creating Prompt gateway and Connecting MondialAI to the Mondial Addon.
 - Creating 3D Model Marketplace
 - Publish to server and Load project from the Server feature
 - Error handling and Error presentation
- Develop Cinema4d Plugin using Python and C4d python library - [Github](https://github.com).
 - Creating Authentication Partition in Mondial Blender Addon
 - Creating Prompt gateway and Connecting MondialAI to the Mondial Addon.
 - Creating 3D Model Marketplace
 - Publish to server and Load project from the Server feature
 - Error handling and Error presentation
- Develop and maintain the [Mondial3d.com](https://mondial3d.com) website – Functional Debugging using Next.js.
- Research about Diffusion Models and Learn from the [Deeplearning.ai](https://deeplearning.ai) course.
- Research about 3D models and Ray casting in Three.js
- Successfully delivered multiple projects on time.

Deep Learning Designer and Engineer – Freelancer – [Jan 2023 - Oct 2023]

- Develop Deep learning algorithm using Pytorch framework:
 - Deep neural networks – Custom Dataset and Data loader.
 - Convolutional Neural Network – Resnet50, EfficientNet, VGG, and etc.
 - Faster-RCNN – Fine tuning backbone and customizing the structure.
 - Data preprocessing – torchvision, Pandas, NumPy, Matplotlib, SciPy, Albumentation, and etc.
 - Fine tuning algorithms to reduce execution time.
- Worked on team of engineers to design and implement Deep Learning algorithms and gathering datasets (Labelling datasets).
- Successfully delivered multiple projects on time.

Full stack Developer – Freelance – [Jul 2022 - Jan 2023]

- React.js – HTML- CSS – JavaScript- Node.js, Express.js, Mongo dB, Mongoose.js.
- Developed and maintained web application and E-commerce website for clients.
- Designing and developing a full functional system for restaurant management (DION management system) – Under development.

Skills

Technical skills:

- *Programming Languages:* Python, JavaScript, C++, Solidity, CSS, HTML, SQL, Tailwindcss.
- *Programming Frameworks:* Pytorch, React.js, Node.js, Express.js, Mongo dB, Mongoose.js. Next.js.
- *Development Methodologies:* Agile (Scrum), UP
- *Multi-threading programming*
- *Artificial Intelligence:*
 - Machine Learning
 - Deep Learning
 - Computer Vision
 - Image Segmentation
 - Data Analysis

Soft skills:

- *Communication*
- *Problem-solving*
- *Critical thinking*
- *Creativity*
- *Teamwork*

Education

Bachelor of Science in Computer Engineering – University Sharif of Technology, Iran – 2020-present.

Certifications

- Machine Learning Specialization – Coursera
- Python and Object- Oriented Programming – Tehran University, Tehran, Iran.
- C++ Programming and Object- Oriented Programming – Tehran University, Tehran, Iran.