

TEOFIL SINICKI

Software Engineer | Web and AI/ML Development

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SUMMARY

Software Engineer with 7+ years of experience in full-stack web and AI development, specializing in building scalable, user-focused applications and cutting-edge AI solutions. Key contributor to the development of **Descript**, an industry-leading audio and video editing platform powered by AI, and **George AI**, an intelligent chat agent designed to enhance user interaction and engagement. Expertise in modern frameworks such as **React.js**, **Vue.js**, and **Django**, as well as advanced AI technologies including **OpenAI APIs**, **NLP**, **LangChain**, and **LLMs**.

EXPERIENCE

2021

• Senior AI/ML Developer

Descript

Played a critical role in the design and development of Descript, an innovative audio and video editing platform, leveraging advanced AI technologies and robust software engineering practices to deliver a seamless user experience.

- Engineered and integrated advanced NLP pipelines for transcription services, utilizing state-of-the-art deep learning architectures such as Transformer models and RNNs to achieve high transcription accuracy and contextual understanding.
- Contributed to the development and enhancement of Descript's Overdub feature, employing generative AI models and TTS systems based on WaveNet and Tacotron to produce lifelike voice synthesis.
- Collaborated with data scientists to preprocess large-scale datasets, fine-tune pre-trained models, and deploy machine learning models in production environments using frameworks such as TensorFlow, PyTorch, and Hugging Face.
- Optimized inference pipelines for machine learning models, minimizing latency and ensuring scalable performance for real-time transcription and voice synthesis for thousands of concurrent users.
- Implemented AI-powered features to automate repetitive editing tasks, including filler word detection and removal, speaker diarization, and silence trimming, leveraging techniques such as unsupervised learning and clustering algorithms.
- Designed and maintained RESTful APIs and microservices architecture to facilitate real-time processing of audio and video, utilizing technologies like Node.js, Python, and Docker.
- Deployed machine learning models and backend services to cloud platforms such as AWS and Google Cloud, leveraging Kubernetes for container orchestration and ensuring high availability and fault tolerance.

2018 - 2021

• AI/ML Developer

George AI

Designed and developed George AI, an innovative AI-powered training platform tailored to revolutionize employee training in the insurance industry by addressing inefficiencies in traditional methods

- Led the end-to-end development and implementation of the platform, combining ML and NLP to create adaptive, personalized training experiences for insurance professionals
- Built custom AI algorithms to evaluate user skill levels, identify knowledge gaps, and dynamically generate training modules that adapt to each employee's learning pace and progress
- Designed and deployed a cloud-based architecture using AWS, ensuring scalability, security, and seamless accessibility for a global user base
- Engineered interactive learning simulations that replicated real-world insurance scenarios, enabling employees to practice handling claims, customer queries, and compliance requirements in a controlled environment
- Integrated gamification features such as quizzes, leaderboards, and badge systems to boost employee engagement and ensure higher completion rates for training programs
- Provided robust real-time analytics and performance tracking tools for managers, allowing them to monitor employee progress, identify areas for improvement, and optimize training strategies.
- Collaborated with cross-functional teams and stakeholders to ensure the platform aligned with organizational goals and industry standards.
- Seamlessly integrated the platform with existing LMS and HR tools using RESTful APIs, ensuring a smooth transition for organizations adopting the platform

SKILLS

A/B Testing		Agile	Algorithms	Front-end		HTML	CSS	Javascript		React.js	Vue.js	Next.js
Angular	Angular.js		Node.js	Artificial Intelligence			Machine Learning		OpenAI	OpenAI API		Langchain
NLP	LLMs	RNNs	Chatgpt	Mocha	Npm	Jest	Python	Django	Flask	FastAPI	Android	
ios	React Native		Flutter	Mysql	Postgresql	Redis	Mongodb		Restful	API	Apis	Restful API
Restful Apis		Graphql	Three.js	D3.js	Stripe	AWS	GCP	Docker				

EDUCATION

09/2013 - 12/2017

Esch-sur-Alzette, Luxembourg

Bachelor Degree of Computer Science

University of Luxembourg

LANGUAGES

English

Proficient