Almas Mirzakhmetov

AI Engineer

Kazakhstan · open to remote

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PROFILE

Software engineer with a research background in applied AI: co-author of four peer-reviewed papers on speech recognition, text-to-speech, epidemic modeling and medical imaging. Now applies LLMs to products and engineering workflows, backed by more than ten years of production software experience.

EXPERIENCE

Senior Software Engineer

2021 — Present

SQUID App · Remote

News aggregator app. Lead of the web team, with a current focus on AI-driven solutions.

- Bring LLM tooling into the engineering workflow: automated reporting, real-device testing and release routines.
- Build daily reporting on consent rates and traffic quality, including bot filtering, to support product and compliance decisions.
- Develop and maintain the PHP web platform that delivers the news reader to mobile users in multiple countries.
- Lead the web team: run two-week sprints from planning through review, and report progress to stakeholders.

Research Assistant

2019 — 2021

ISSAI, Nazarbayev University · Astana, Kazakhstan

Institute of Smart Systems and Artificial Intelligence.

- Co-authored four peer-reviewed papers on speech recognition, text-to-speech, epidemic modeling and medical imaging (EACL, INTERSPEECH, IEEE JBHI, IEEE EMBC).
- Contributed to the Kazakh Speech Corpus (332 hours, 153,000+ utterances) and KazakhTTS (93 hours), both released as open-source datasets.
- Worked with PyTorch, TensorFlow and Keras on NVIDIA DGX hardware.
- Developed web-based AI applications, including AI-based diagnostics.

Web Developer

2019

Naimi.kz · Astana, Kazakhstan

Web development for a Kazakhstan services marketplace.

Web Developer

2014 — 2019

Nazarbayev University · Astana, Kazakhstan

- Built and maintained university web applications across the full development cycle.

Junior Web Developer

2012 — 2013

ABBYY Language Services · Moscow, Russia

Web development for ABBYY's translation and localization business, alongside a master's degree.

PUBLICATIONS

A Crowdsourced Open-Source Kazakh Speech Corpus and Initial Speech Recognition Baseline

Y. Khassanov, S. Mussakhojayeva, **A. Mirzakhmetov**, A. Adiyev, M. Nurpeiissov, H.A. Varol

EACL 2021 — 16th Conference of the European Chapter of the Association for Computational Linguistics

KazakhTTS: An Open-Source Kazakh Text-to-Speech Synthesis Dataset
S. Mussakhojayeva, A. Janaliyeva, **A. Mirzakhmetov**, Y. Khassanov, H.A. Varol
INTERSPEECH 2021 — 22nd Annual Conference of the International Speech Communication Association

A Network-Based Stochastic Epidemic Simulator: Controlling COVID-19 With Region-Specific Policies
A. Kuzdeuov, D. Baimukashev, A. Karabay, B. Ibragimov, **A. Mirzakhmetov**, M. Nurpeiissov, M. Lewis, H.A. Varol
IEEE Journal of Biomedical and Health Informatics (JBHI), Vol. 24, No. 10, 2020

End-to-End Deep Diagnosis of X-ray Images
K. Urinbayev, Y. Orazbek, Y. Nurambek, **A. Mirzakhmetov**, H.A. Varol
IEEE EMBC 2020 — 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society

Details and links: almas.dev/research · Google Scholar

PROJECTS

almas.dev — Personal blog on software and AI in English, Russian and Kazakh, built with Astro.

SKILLS

AI & ML	LLM integration · Prompt engineering · PyTorch · TensorFlow · Keras · Speech recognition and TTS · NLP
Backend	PHP · Python · Node.js · Java
Databases	PostgreSQL · MongoDB · MySQL · Oracle (SQL, PL/SQL)
Cloud & systems	AWS · Linux / Unix administration · VMware
Frontend	JavaScript · TypeScript · React · Next.js · Tailwind CSS · Vue.js · React Native

EDUCATION

MS, Applied Mathematics 2012 — 2014
National Research Nuclear University MEPhI, Moscow

BS, Applied Mathematics and Informatics 2008 — 2012
Peoples' Friendship University of Russia (RUDN), Moscow

LANGUAGES

Kazakh (native) · Russian (native) · English (fluent)