BERIK BAZARBAYEV

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) **Aug 2019 − Jun 2024**
Bachelor of Science in Computer Science *South Korea*

EXPERIENCE

Giboo, Inc. **Jul 2024 - Feb 2025**
DevOps Engineer *Seoul, South Korea*

- Orchestrated end-to-end migration of production databases using **AWS DMS**, automating schema replication, dependency-aware data syncing, and cut-over workflows. Reduced downtime by **85%** and eliminated data loss risks.

- Built a high-concurrency crawler pipeline (**Scrapy + Playwright**) to automate image extraction, scraping images from **500,000+** websites.

- Designed and automated a fault-tolerant big data pipeline using **AWS Step Functions** and **AWS Glue**, cutting manual monitoring and orchestration by **25 hours/month**.

- Deployed microservices with **AWS CDK**, integrating **Lambda, API Gateway, SQS, RDS, ECS, and S3** to automate workflows, including real-time data streaming, email scheduling, file downloading, and server error notifications via Slack.

AKA Cognitive **Jun 2023 - Feb 2024**
Back-end Developer *Seoul, South Korea*

- Reduced OpenAI API response errors by **73%** by redesigning **Django and Celery** back-end, leveraging OpenAI's Function Call feature to ensure consistent JSON output for mission-critical tasks.

- Developed a reusable WebSocket module adopted by **3 teams** to enable real-time response streaming, resolving data loss issues caused by multiserver architecture.

- Engineered data collection and processing pipelines for LLM fine-tuning, curating **20+ GB** of high-quality chat data (synthetic + real user sessions) while training **3 classification models** using **Sentence Transformers** to achieve **94% accuracy.**

Prism39 **Jan 2023 - Feb 2023**
Back-end Developer *Seoul, South Korea*

- Boosted data processing speed by **2.5x** by replacing Pandas with **Polars**, while **cutting storage costs by 66%** by transitioning from Arrow to **Parquet** for optimized compression of archived data.

- Implemented a reusable data export system using **FastAPI** and **MinIO**, allowing users to save/retrieve complex query results, reducing the average retrieval time by **65-70%**.

- Automated API documentation updates via **Sphinx/Git integration**, reducing manual maintenance time by **12 hours/month**, and implemented **JWT authentication** to secure exclusive access for users.

PROJECTS

Mapnotes: A feature rich mind mapping tool (link) **August 2023**

- Created a web application by combining ReactJS and Django to facilitate the creation of collaborative mind mapping workspaces, fostering efficient brainstorming and planning sessions. Github repositories (links): (front-end, back-end)

SKILLS

- Programming Languages: Python, JavaScript, Go, C, C++, HTML, CSS
- Technologies: React.js, Django, Docker, MongoDB, PostgreSQL, AWS, Nginx, FastAPI, Git, Linux, AWS CDK, Jenkins