Arlan Marat

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EDUCATION

Minerva University — San Francisco, CA
Bachelor of Computational Sciences in Computer Science and Artificial Intelligence — *August 2024 – May 2028*

WORK EXPERIENCE

Full Stack Developer Intern — September 2024 – Present
Waymo — *San Francisco, CA*

- Built autonomous vehicle education platform using **Next.js**, implementing type-safe API with **tRPC** and gamification logic for **15+** interactive modules
- Configured **Vitest** and **MSW** testing suite with **90%** coverage and automated **GitHub Actions** deployments
- Optimized database queries using **PostgreSQL** materialized views and **Redis** caching, reducing response times to **¡50ms**

Frontend Developer — August 2024 – September 2024
Napkins Magazine — *San Francisco, CA*

- Developed modular architecture using **React** and **Next.js**, implementing custom hooks and compound components for **200+** multimedia articles
- Enhanced performance through strategic **SSG** and **ISR** implementations, achieving **30%** faster time-to-interactive for media-heavy pages
- Designed **MongoDB** aggregation pipelines for efficient content retrieval, optimizing complex queries across multimedia collections
- Implemented advanced state orchestration with **Context API** and **Redux Toolkit**, reducing global state overhead by **20%**

Full Stack Developer — June 2024 – August 2024
nFactorial Incubator Web AI Bootcamp — *Almaty, Kazakhstan*

- Led development of full-stack applications with **MERN stack** and **TypeScript**, implementing domain-driven design patterns
- Established **Docker** microservices architecture with automated **CI/CD** pipelines for reproducible deployments
- Developed advanced **MongoDB** indexing strategies and aggregation pipelines to optimize data access
- Designed authentication system with **OAuth 2.0** flow and **JWT** refresh token rotation for enhanced security

Frontend Developer Intern — June 2023 – August 2023
Globerce Capital IT Group — *Almaty, Kazakhstan*

- Engineered responsive UI components using **React** hooks and custom abstractions for **50+** financial dashboards
- Architected data flow with **Redux** and **Redux Saga**, implementing optimistic updates for real-time synchronization
- Developed interactive visualization system with **D3.js**, creating reusable chart components for financial analytics
- Optimized application performance through strategic code-splitting and **React.memo** implementations, reducing load times by **35%**

PROJECTS

Bazaar AI | *MERN Stack, Next.js, Tailwind, OpenAI, Docker*

- Built an AI shopping assistant using **NLP** to analyze **50,000+ products** across **8+ marketplaces**.
- Integrated **OpenAI** embeddings with **vector search**, enhancing relevancy and boosting query accuracy.
- Optimized data access with **Redis** caching and **query optimization**, reducing retrieval times by **70%**.
- Deployed with **Docker** containers, enabling **auto-scaling** to support **1,000+ users** in the first week.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML/CSS, Java, Python, Dart
Frameworks/Technologies: Next.js, React.js, Node.js, Express.js, Spring Boot, Flutter, Tailwind
Tools: GitHub, Git, Postman, VS Code, PyCharm, Docker, Redis, MongoDB, Firebase, AWS, Vercel