Sanzhar Nussipbek

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PROFILE

Full-stack software engineer with 5+ years of extensive experience in FinTech, AI, Blockchain, B2C, and B2B. Skilled in building data-driven web applications, Web3 and AI apps. I design, architecture and deliver scalable, user-friendly, and discoverable applications based on business constraints. In development, I pay special attention to clear business communications, team processes, project risks, iterative approach, transparent estimation and decomposition.

EXPERIENCE

Quantitative Technologist   Nov 2025 – Present
Qube Research & Technologies   *Hong Kong*
- Build and maintain real-time monitoring interfaces for high-frequency trading systems.

Senior Software Engineer   Jan 2023 – Oct 2025
VSystems   *Hong Kong*
- Led the development of decentralized multi-chain Web3 applications for the DeFi Protocol with a TVL of US$1M and volume of US$7M.
- Designed and developed an AI answer engine web application for financial analytics with sentiment analysis, citation mapping, and chatbot.
- Implemented a hybrid authentication approach with symmetric and asymmetric encryption for Tokenization-as-a-Service API allowing clients to use service's API endpoints securely.

Staff Engineer   Jul 2022 – Jan 2023
ParallelChain Lab   *Hong Kong*
- Designed and built scalable transaction explorer web apps for a proprietary Layer-1 blockchain ecosystem allowing uninterrupted connection to thousands of users and nodes.
- Increased average daily user count by 250% by rebuilding brand website with latest tech stack focusing on SSR, SSG, 3D graphics, and targeting SEO improvements.

Software Engineer   Jul 2020 – Jul 2022
DAR Tech   *Almaty, Kazakhstan*
- Contributed to a video library and online stream player modules of an Online Movie Streaming Service web application used by 10,000+ users daily.
- Led the development of a brand component library hosted as an npm package facilitating consistent design system in company's internal applications.
- Developed an employee management HRTech solution as a microfrontend module utilizing BFF architecture.

EDUCATION

Master of Science in Finance (FinTech and Financial Analytics)   Hong Kong Baptist University
Investment Management, Algo-Trading, Derivatives, Python, Machine Learning   *Hong Kong*

Bachelor of Science in Computer Science   Hong Kong Baptist University
Object Oriented Programming, Database Management, Cloud Computing, Networking   *Hong Kong*

Exchange Semester   University of Birmingham
Functional Programming, Algorithms, Systems Programming   *Birmingham, UK*

PROJECTS

AI-Powered Digital Platform for Private Banking Customers   Dec 2024 – Jun 2025
Standard Chartered Bank   *Hong Kong*
- Collaborated with the FinTech team from Standard Chartered Bank (Hong Kong) to deliver business analysis report on a new wealth management AI product for HNWI.
- Conducted market research, customer profiling, and competitor analysis in digital wealth management space, providing unique value proposition and scalable GTM strategy.
- Analyzed landscape of AI solutions by comparing different proprietary and open-source LLM models, hosting, pricing choices and providing clear solution proposal based on business requirements.

SKILLS

Languages: TypeScript, JavaScript, Python, Go, SQL, HTML, CSS.
Frontend: React, Next.js, Vue, Nuxt, React Native, Expo, Vite, NextAuth, SupabaseAuth, tRPC, Prisma, WebSocket, Axios.
Backend: Node.js, Express, NestJS, REST, Swagger, OpenAPI, GraphQL, Apollo, MySQL, PostgreSQL, MongoDB.
UI/UX: TailwindCSS, MaterialUI, Radix UI, Three.js, Figma, Storybook, BEM.
State & Testing: Redux, RTK, Zustand, Pinia, TDD, E2E, Jest, RTL, Vitest, Cypress, Playwright, Chromatic.
Dev Tools: Git, CI/CD, GitHub Actions, Git Flow, AWS, Docker, NPM semver, AI Agents, Cursor, Copilot.
Soft Skills: Project Management, Leadership, Estimation, Mentoring, Business Analysis.