

Socheat CHEA

Technical Lead | Senior Full-Stack Developer

Technical Lead and Senior Full-Stack Engineer with 10+ years of experience building web and mobile applications, backend services, and enterprise systems. Skilled in Node.js, TypeScript, NestJS, React, Next.js, and React Native, with expertise in API development, microservices, database optimization, and system architecture. Experienced in leading engineering teams, mentoring developers, and delivering scalable, reliable software solutions from design to production.

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Choam Chau 2, Pou Senchey, Phnom Penh

Technical Skills

Programming Language

JavaScript, TypeScript, Python, Java, Kotlin, Swift

Backend Development & Architecture

- ***Backend Technologies***: Node.js, Express.js, NestJS, Python (Flask, FastAPI), Java (Spring Boot, Spring MVC).
- ***API & Architecture***: RESTful APIs, microservices, authentication, authorization, and third-party integrations.
- ***Authentication & Security***: JWT, OAuth 2.0, Two-Factor Authentication (2FA), Google Authenticator, and access control.
- ***Real-Time Communication***: Socket.IO, WebSocket, and real-time event handling.
- ***Database & ORM***: PostgreSQL, MySQL/MariaDB, Drizzle ORM, Knex.js, schema design, query optimization, and migrations.
- ***Data Validation***: Zod, schema validation, and TypeScript type safety.
- ***Messaging & Background Jobs***: Redis, BullMQ, RabbitMQ, task scheduling, and event-driven processing.
- ***Third-Party Integrations***: SMS gateways, payment gateways, webhooks,Twilio, and external APIs.

Experience

Tovtrip Technology

November 2023 – 2026

Technical Lead / SWE Manager

Led technical development and engineering delivery for a travel technology platform focused on accommodation, and reservation booking.

Engineering & Architecture

- Designed and built software systems from scratch, including backend services, web applications, and mobile applications.
- Designed backend services using **Node.js**, **Express.js**, **NestJS**, and **TypeScript**.
- Built web and mobile applications using **React.js**, **Next.js**, and **React Native**.
- Implemented database access using **Drizzle ORM** and **Knex.js** with **PostgreSQL** and **MariaDB**.
- Implemented schema validation and type-safe data validation using **Zod**.
- Designed booking, payment, and transaction workflows with optimized database queries.

Integrations & Distributed Systems

- Integrated third-party travel services, including **flight APIs**, **eSIM, SmartVIP** services, and **payment gateways** (ABA Payway).
- Implemented backend integrations and business workflows across application services.
- Implemented real-time communication and event-driven updates using **Socket.IO**.
- Implemented custom Two-Factor Authentication (**2FA**) using Google Authenticator to enhance account security.
- Integrated **Plastgate SMS Gateway** for SMS notifications and verification workflows.
- Integrated Google services and APIs, including **FCM, Geocoding API.**

Cloud Infrastructure & DevOps

- Provisioned and managed cloud infrastructure on **AWS** and **DigitalOcean**.
- Managed AWS services: **EC2, S3,** and **CloudFront** for compute, storage, and content delivery.
- Configured VPCs, subnets, security groups, firewalls, and access controls.
- Managed containerized applications using **Docker**, **Kubernetes**, and **Helm**.
- Configured Kubernetes deployments, services, ingress, and scaling using **Kong Ingress Controller**.
- Built and maintained **Jenkins** CI/CD pipelines, **Gitlab CI** for automated deployments.
- Set up on-premises infrastructure and **Sonatype Nexus Repository** for artifact and Docker image management.
- Automated iOS and Android releases using **Fastlane**, **TestFlight**, and **Firebase App Distribution**.
- Managed DNS, SSL/TLS certificates, and reverse proxy configurations.
- Monitored infrastructure, troubleshot production issues, and improved system reliability.

- ***Performance & Reliability***: Caching, error handling, logging, and production troubleshooting.

Frontend Development

- ***Frameworks & Libraries***: React.js, Next.js, Vue.js.
- ***Languages:*** JavaScript, TypeScript.
- ***UI & Styling***: Tailwind CSS, shadcn/ui.
- ***Development:*** Responsive web applications, reusable components, and modern frontend architecture.

Mobile Development

- ***Frameworks & Languages:*** React Native, Android (Kotlin, Java), iOS (Swift, Objective-C).
- ***Development:*** Native and cross-platform applications, API integration, payment gateway integration, and mobile application release management.

Database & Data Management

- PostgreSQL, MySQL, MariaDB, MongoDB, Cassandra, IndexedDB.
- Database schema design, SQL optimization, indexing, transactions, migrations, and data modeling

Messaging & Distributed Systems

- RabbitMQ, Apache Kafka, BullMQ, Redis.
- Message queues, asynchronous processing, background jobs, and event-driven communication.

Cloud Infrastructure & DevOps

- ***Cloud Platforms***: AWS, DigitalOcean, EC2, and Droplets.
- ***Containers & Orchestration***: Docker, Docker Compose, Kubernetes, and Helm.
- ***CI/CD & Automation***: Jenkins, GitLab CI, and Fastlane.
- ***Infrastructure Management***: Cloud networking, VPCs, subnets, security groups, firewalls, DNS, SSL/TLS, and deployment management.
- ***Operations***: Application monitoring, production troubleshooting, and infrastructure maintenance.

Testing & Code Quality

- Robot Framework, Selenium, Puppeteer, Appium, JMeter, SonarQube, ESLint.
- Automated testing, mobile application testing, performance testing, and code quality analysis.

Data Engineering & Analytics

- Designed and implemented Change Data Capture (CDC) and ETL pipelines to extract, transform, and load data from operational databases into analytics databases.
- Developed data transformation and aggregation workflows to support business intelligence, reporting, and dashboard analytics, similar to Power BI data preparation workflows.

Financial Platform Integrations

- Developed and integrated ABA Bank Mini App and Wing Bank Mini App, enabling travel booking services through banking platforms.
- Integrated banking services and payment workflows to support seamless booking and payment experiences.

Technical Leadership

- Established development standards and conducted code reviews.
- Coordinated technical implementation with product stakeholders.
- Guided engineering decisions and supported the delivery of maintainable software.

ERP Customization

February 2025 - February 2026

Freelance Odoo Developer

- Customized Odoo ERP modules to meet client-specific business requirements.
- Developed and enhanced purchase approval workflows, including multi-level approval processes for Purchase Orders (PO).
- Improved and maintained Purchase Requisitions (PR), Purchase Orders (PO), and IR workflows.
- Fixed bugs, optimized existing business logic, and enhanced ERP functionality.
- Developed custom features and modified existing modules to improve operational efficiency.

LTLabs

July 2021 - October 2023

Software Engineering Manager

Promoted from Senior Android Engineer

- Led software engineering and QA teams responsible for maintaining and evolving LTQ, LTm, LTie, LTw SaaS products.
- Managed development resources, assigned tasks, and coordinated engineering delivery.
- Led technical recruitment and onboarding to strengthen engineering capacity.
- Guided system architecture, code reviews, engineering standards, and technical decisions.
- Collaborated with product teams and stakeholders to translate business requirements into technical solutions.

Senior Android Engineer

July 2021 – March 2022

- Maintained and enhanced existing SaaS products using **Node.js**, **React.js**, **MariaDB, Redis**, and **Kotlin** (Android).
- Developed new features across web, mobile, and backend applications for **LTq, LTm, LTie, LTw.**
- Integrated third-party systems to collect, migrate, and synchronize client data into the SaaS platform.
- Designed technical solutions, optimized database queries, and resolved production issues.
- Collaborated with product and QA teams to deliver product enhancements and maintain software quality.

Desktop Application Development

- Electron.js, Python, PyQt5.

System Integration

- Third-party API integration, payment gateway integration, webhooks, data migration, and cross-system communication.

Technical Leadership & Engineering Management

- Software architecture, technical planning, development team leadership, code reviews, coding standards, developer mentoring, recruitment, and project delivery.

ERP & Business Applications

- Odoo customization, Python-based module development, business workflow automation, purchase approval workflows, and ERP integrations.

Soft Skills

- Leadership and Team Management
- Project Planning and Execution
- Mentorship and Training
- Team Culture Building
- Strategic Decision-Making
- Recruitment and Talent Development
- Problem Solving and Innovative Thinking

Training Course

Managing Employment Performance-KPI
Education Development Institute - EDI 2019

Advance Course of Software Expert (iOS Development)
Korean Software HRD Center 2014-2015

Basic Course of Software Expert (Web Development)
Korean Software HRD Center 2014-2015

Language

- Khmer
- English

Clik Payment
January 2021 - October 2021

DevOps Engineer

Supported cloud infrastructure, CI/CD automation, mobile application releases, and production operations for a digital payment platform.

Cloud Infrastructure & CI/CD

- Provisioned and managed AWS infrastructure, including EC2 instances and S3 storage.
- Built and maintained Jenkins CI/CD pipelines integrated with Git for automated builds and deployments.
- Managed application build, deployment, and release processes across development and production environments.

Mobile Release & Production Operations

- Managed iOS and Android application builds, releases, and updates for Apple App Store and Google Play Store.
- Integrated Firebase Analytics, Notifications, and Crashlytics for application monitoring and diagnostics.
- Monitored production systems, analyzed application logs, and troubleshot performance and reliability issues.
- Managed production hotfixes, deployment rollbacks, and release troubleshooting.

Bronx Technology
April 2019 - December 2020

Senior Android Engineer

Developed and maintained mobile applications across e-commerce, appointment booking, and agriculture.

Mobile Application Development

- Developed and maintained native Android applications using Kotlin and Java, including T-Shop (E-commerce), Lucky Salon (Appointment Booking), and Chamka (Agriculture).
- Integrated RESTful APIs and third-party payment gateways, including BongLoy and ABA PayWay.
- Implemented live chat functionality connecting farmers with agricultural specialists using **Twillio.**
- Contributed to application architecture, feature development, and performance optimization.

Technical Leadership & Delivery

- Coordinated developers, technical requirements, development, and testing.
- Mentored engineers and supported technical recruitment.
- Managed Git repositories, branching strategies, and release workflows.
- Managed application builds and releases through Google Play Console, TestFlight, and App Store Connect.

GL Fiance Plc
2017 - March 2019

Senior Mobile Developer

Led mobile application development across Android and iOS platforms while contributing to backend API development and technical delivery.

- Led and coordinated Android (Kotlin) and iOS (Swift) developers, managing tasks and supporting hands-on development.
- Designed and developed mobile applications and reusable software libraries.
- Collaborated with backend developers to deliver APIs and integrated mobile applications with financial services.
- Developed web-based content management systems for mobile applications and integrated platforms.

- Implemented mobile CI/CD pipelines using Fastlane and Jenkins.
- Managed application builds and releases through Google Play Console, TestFlight, and App Store Connect.
- Guided technical decisions, mentored developers, and coordinated project delivery.

Backend Developer

2016 – 2017

Developed backend services and web applications for financial leasing systems.

- Developed the eFinance leasing system using Java, Spring MVC, and Vaadin.
- Developed RESTful APIs using Spring Boot to support mobile applications, including Digital Finance and Collection GO.
- Designed and maintained database operations using PostgreSQL.
- Implemented backend business logic and integrated services to support financial and leasing workflows.
- Maintained existing applications, resolved software defects, and improved system functionality.

KOSIGN

2015 - 2016

iOS Developer

Developed native iOS applications, including an IBK Bank mobile application, and contributed to outsourced software development projects.

- Developed iOS applications using **Swift** and **Objective-C.**
- Implemented mobile application features and maintained existing applications.
- Analyzed project requirements, documented workflows, and translated specifications into technical implementations.
- Troubleshot software defects and optimized application performance.
- Collaborated with project teams to deliver outsourced mobile applications.

Education

General English Program (GEP)

Collingwood English Institute (AUPP)

2015-2016

Royal University of Phnom Penh

Bachelor Degree of Computer Science and Engineering

2011-2015

Reference

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