CURRICULUM VITAE

Phnom Penh, Cambodia



Kimchhung Pech

Senior Software Engineer | Technical Oversight & Software Delivery

Senior Software Engineer with experience across backend services, frontend applications, and production delivery. Currently focused on coordinating development, guiding platform modernization, and reviewing developer-written and AI-generated code. Experience includes TypeScript-to-Go migration, caching architecture, frontend restructuring, automated testing, and deployment workflows.

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01/ EXPERIENCE

Nov 2022 – Present
Phnom Penh

Current role

Senior Software Engineer

VTECH ↗

Information technology company.

- Coordinate development tasks and guide technical decisions across backend, frontend, and delivery workflows.

MAIN AREAS OF WORK

Current focus

AI-assisted delivery & code oversight

Coordinate development work, review changes, and oversee testing and code quality across developer and AI-assisted workflows.

- Coordinate development tickets and track work using Hermes.
- Review developer-written and AI-generated code, supported by a personal GitHub review agent.
- Automate testing workflows and oversee code quality before delivery.

Hermes | GitHub | AI agents

Campaign Platform Modernization

Technical oversight of a TypeScript-to-Go migration, architecture improvements, and application performance work.

- Oversee the campaign platform's migration from TypeScript to Go.
- Guide application structure and design patterns during the migration.
- Introduce multi-tier caching with in-memory and Redis layers to improve application performance.
- Use cache versioning to address race conditions on endpoints handling approximately 300 requests per second.
- Standardize cache access and durable invalidation behind a shared abstraction to reduce duplicated logic and improve maintainability.

TypeScript | Go | In-memory caching | Redis | Cache versioning

Current focus

Frontend Modernization - In Progress

Ongoing migration of a legacy frontend to a maintainable structure with Storybook support and clearer integration boundaries.

- Manage the ongoing rewrite of a legacy frontend into a new application structure.
- Introduce Storybook support for developing and reviewing UI components.
- Separate UI components, application logic, and API integration to reduce coupling.
- Apply DTO patterns at API integration boundaries and establish consistent naming conventions.

Storybook · DTO pattern · API integration

Delivery Automation & Deployment

Practical CI/CD and application deployment support.

- Support automated build and deployment workflows using GitHub Actions and Jenkins.
- Work with CapRover and AWS EC2 for application deployment and hosting.

GitHub Actions · Jenkins · CapRover · AWS EC2

Platform delivery & Go adoption

Production delivery and early adoption of Go within the company.

- Built and deployed two production projects using Go, Vue.js, MySQL, REST APIs, and GraphQL.
- Helped introduce Go within the company as one of its early adopters.

Go · Vue.js · MySQL · REST APIs · GraphQL

Reward system

Complex reward logic and integrations.

- Implemented and enhanced a reward system with complex logic and integrations, designed to support millions of users.

Live-streaming GraphQL

GraphQL API performance and user experience for live streaming.

- Contributed to GraphQL API development and performance improvements for a live-streaming application.

Automated Task Scheduling

Flexible task scheduling with real-time management and execution controls.

- Developed an automated scheduling system with independently configurable schedules for each task.
- Supported real-time management of scheduled tasks, including schedule changes, pause, and stop controls.

Oct 2021 – Nov 2022
Phnom Penh

Senior Full-Stack Engineer

Okoone ↗

A global consultancy and technology company providing enterprise solutions.

- Served as a frontend technical reference and built a reusable Tailwind CSS library.
- Designed interfaces in Figma, including the Ship24 homepage, and implemented supporting backend services.
- Improved frontend structure, SEO, and performance through rendering and response-size improvements.
- Monitored application traffic and investigated production issues.

NestJS · AngularJS · Tailwind CSS · Figma · MongoDB · MySQL

Sep 2020 – Jul 2021
Phnom Penh, Cambodia

Front-end Developer

TK EXPRESS CO.LTD ↗

BLOC is an online mall and delivery app serving people throughout Cambodia.

- Implemented internal web application interfaces using React and Next.js.
- Built a Firebase chat web application with image uploads.
- Integrated APIs with React interfaces, managed state, and handled frontend errors.

React · Next.js · Firebase · REST APIs

Jan 2019 – Jun 2020
Cambodia

Full-stack Developer

Unseentra

A website and mobile application for finding and booking activities and experiences across Cambodia.

- Built Laravel database migrations, model relationships, and REST authentication APIs.
- Developed web interfaces using HTML, CSS, and Vue.js.

Laravel · Vue.js · HTML · CSS · REST APIs

02/ TECHNICAL SKILLS

Technical oversight & delivery

Development coordination · Code review · AI-assisted workflows · Automated testing · Platform modernization

Backend & caching

Go · TypeScript · Node.js · REST APIs · GraphQL · Redis · Cache versioning

Frontend architecture

React · Next.js · Vue.js · Storybook · Tailwind CSS · DTO patterns

Databases

MySQL · PostgreSQL · MongoDB · Firebase

DevOps - working knowledge

GitHub Actions · Jenkins · CapRover · AWS EC2

Design & development tools

Figma · GitHub · Hermes · Postman · TablePlus

03/ EDUCATION

Nov 2016 – Jul 2021

Paragon University

Bachelor of Science in Computer Science

Phnom Penh, Cambodia

Data Structures and Algorithms / Computer Networks / Security and Risk Management

04/ SELECTED PROJECT

Apr 2021 – Jul 2021

Sersity ↗

- Developed a full-stack application and its data model.
- Implemented GraphQL APIs using Apollo Server and Apollo Client.
- Implemented real-time chat, notifications, and subscriptions.

TypeScript · PostgreSQL · Next.js · Prisma · GraphQL · Apollo Server · Apollo Client

05/ VOLUNTEERING

Jun 2023

ParagonIU Hackathon 2023

Judge

Evaluated creativity and technical skills at the hackathon.

Apr 2021

ParagonIU Hackathon 2021

Mentor

Mentored an IoT hackathon team, developing innovative ideas and leading the team to the top spot.

Jan 2017 — Mar 2018

AIESEC

OGX Team Member

Team member in outgoing global exchange (OGX).

06/ ACHIEVEMENTS

Sep 2021

Third place in Techo Startup Center

A government co-innovation program bringing together Cambodian entrepreneurs and young talent.

Jun 2020

Second place in the ParagonIU Hackathon program

A two-day coding sprint hosted by the ICT Faculty of Paragon.

07/ PEOPLE SKILLS

Team coordination · Communication · Problem solving

08/ LANGUAGES

English

Professional Working Proficiency

Khmer

Native or Bilingual Proficiency

09/ INTERESTS

Artificial Intelligence · Robotics · Traveling