

# PENGLENG HOK

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## REACT REACT-NATIVE DEVELOPER

Seasoned full stack developer with over 5 years of experience developing and maintaining enterprise web and mobile applications leveraging React and React Native within Ecommerce, Supply Chain, and IT industries. Focused on the requirements gathering, development, and deployment phases, leveraging Agile methodologies to ensure quick feedback loops and adaptable planning. Skilled in working with React, TypeScript, NodeJS, React Native, PostgreSQL, Google Firebase, and AWS.

- Web Applications and Frameworks • Team Collaboration • Efficiency Improvement • Problem Solving • UI/UX Design
- Delivery Oriented • Time Management • Continuous Integration and Continuous Delivery (CI/CD)

**Languages:** TypeScript, JavaScript

**Web:** HTML, CSS, React, Redux, Mobx, Node.js

**Web Services:** REST, GraphQL, JSON

**Frameworks:** Angular, NestJS, ExpressJS, React-Native, Flutter

**Databases:** Postgres, Google Firestore

**Design Patterns:** Composite, Singleton, Decorator, Command

**SDLC:** Agile

**Tools:** VScode, Git, GitHub, Navicat, Xcode, Android Studio, Chrome Dev Tools, NPM, Metabase

**Platforms:** MacOS, Amazon Web Services (AWS)

## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

### FINGERTIP, Phnom Penh, Cambodia • 11/2021 – 04/2024

A digital order & production management platform to monitor, track and manage quality and generate reports instantly.

#### Senior Full-stack Developer

- Designed and developed Production Quality Inspection mobile application using React Native and WatermelonDB, enabling offline inspections and doubling efficiency through online data sync.
- Built an inspection templating feature with ReactJS and NestJS, enabling users to create multiple workflows within a single app, enhancing flexibility, scalability, and adaptability to diverse inspection needs.
- Enhanced an existing mobile app by developing a core feature with digital measurement tape integration, significantly improving measurement speed and accuracy for inspection workflows by 3x.
- Created an inspection data dashboard using ChartJS for visualization and Metabase for query building, delivering actionable insights and enhancing decision-making and operational efficiency.
- Developed a PDF inspection's report generation feature using NestJS and Puppeteer, enabling users to instantly receive inspection reports, reducing the time and resources required for manual report creation.
- Implemented a deployment service using CapRover and Docker for both frontend and backend applications, enabling continuous deployment and reducing deployment time by 90%.
- Integrated Sentry with ReactJS, React Native, and NestJS for comprehensive error capturing and improve the application quality by 50%.
- Deployed and published multiple production apps to the iOS App Store and Google Play Store.
- Led the design and development of the company's flagship supply chain software using ReactJS, React Native, Nest.js, and PostgreSQL, acquiring 200+ paid subscribers in six months.

**Technologies Used:** TypeScript, JavaScript, React, NestJS, Node, React-Native, Postgres, CapRover, Express.js, Docker, Ant Design.

### WING BANK, Phnom Penh, Cambodia • 07/2020 – 10/2021

One of Cambodia's major banks that provide financial services to client.

#### Senior Frontend Developer

- Built an eCommerce application with ReactJS and Material UI, replacing a legacy PHP system, improving performance, and enabling a successful product launch during the pandemic lockdown.

- Enhanced images loading time using SharpJS, AWS Lambda, and AWS CloudFront, resulting in a 3x performance improvement.
- Implemented RSA encryption for users' bank account PIN codes during transactions in the ReactJS application, enhancing security for sensitive data.
- Optimized app performance by introducing lazy loading by applying code splitting using React, reducing initial load time by 40%.
- Collaborated with cross-functional teams in an Agile environment to define feature requirements utilizing Jira, which helped achieve a 80% sprint completion rate and timely feature releases.
- Introduced Flutter framework to the development team and built a product, resulting in a 3x reduction in mobile app development time and the establishment of a dedicated Flutter mobile team.
- Led a frontend team in building reusable components with React Hook, Redux and Material UI, resulting in a 30% decrease in development time for new features and better code maintainability.

**Technologies Used:** *ReactJS, Redux, Material UI, Redux-Saga, Flutter, GetX.*

**PHSARTECH, Phnom Penh, Cambodia • 07/2019 – 07/2020**

Software service company providing software solutions to businesses.

**Frontend Developer**

Built full stack application including mobile app

- Developed full-stack applications using React Native, Angular, and Firebase, leading to a 5x reduction in software delivery time.
- Designed and implemented Cambodia's first EPUB book reading application using React Native, Angular, and Firebase, enabling the client to launch a new startup that raised over \$100k in funding.
- Worked closely with clients throughout development, leveraging iterative feedback to ensure continuous improvement and achieving 3x faster delivery of high-quality applications.
- Provided ongoing support for customers on app-related issues, fostering strong relationships that led to increased customer retention and additional business opportunities.
- Served as the technical lead, providing solutions to technical challenges and offering support to the development team, ensuring smooth project execution and high-quality results.
- Managed the deployment of production apps to the iOS App Store and Google Play Store.

**Technologies Used:** *React-Native, Angular, Mobx, Firebase.*

**ACADEMIC PROJECTS**

**Maharishi International University (2024)**

- **MeanShoes:** Built a shoe collection management website with CRUD functionality, enabling users to list, add, edit, and view detailed information. Designed the user interface, implemented backend logic, and managed the GitHub codebase using version control for collaboration. Tech stack: MongoDB, Express, Angular.
- **QuadCount:** Developed a full-stack web application ([frontend](#) & [backend](#)) for group expense management, enabling users to create groups, add members, record expenses, and calculate balances for reimbursements. Designed the UI, implemented backend logic, and managed group and member features using React, Spring Boot, Redux Toolkit, and PostgreSQL.

**PERSONAL PROJECTS**

**Mongkolka (2023):** Developed a wedding management app with features for tracking statistics, managing guest lists, recording expenses, handling dowries, and setting wedding dates. Designed core functionalities, implemented backend logic, and ensured stable deployment using Flutter and Firebase.

**EDUCATION**

**Master of Science in Computer Science**

*(In progress via distance education; expected completion 12/2026)*

Maharishi International University, Fairfield, Iowa

*Key Courses: Modern Web Applications, Advanced Software Development, Web Application Architecture, Algorithms*

**Bachelor in Computer Science**

Paññasatra University of Cambodia, Phnom Penh, Phnom Penh (11/2018)