KAI TAING

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.NET/C# Developer

Experienced .NET Developer with 5+ years of success designing and developing scalable, secure, and maintainable enterprise systems. Proven strength in full-stack development using C#, ASP.NET, Angular, and modern cloud technologies. Deep knowledge of banking systems, data processing, and scalable architecture with a focus on clean code, SOLID principles, and system performance. Passionate about innovation and lifelong learning.

• Full-Stack Development • Core Banking Systems • Microservices Architecture • Data Optimization
• Cloud Services (AWS S3, Lambda) • Scalable & Secure Solutions • Clean Code & SOLID Principles
• System Integration • Automation & Reporting Systems

Languages: C#, JavaScript, Python
Web: HTML, CSS, HTTP, JSON
Web Services: REST, SOAP
Web/App Servers: IIS
Frameworks: .NET (Core & Framework), ASP.NET MVC, Angular, React.js, Next.js
Databases: MS SQL Server, MySQL, PostgreSQL, Oracle
Design Patterns: Repository, MVC, Observer
SDLC: Agile, Waterfall
Tools: Visual Studio, Visual Studio Code, PyCharm, SQL Server Management Studio, Git, Docker, JIRA, GitHub, AWS
Cloud & DevOps: AWS (S3, Lambda, CloudFormation), CI/CD, GitHub Actions
Platforms: Windows 10, Windows Server, Linux (CentOS, Ubuntu)
Big Data: Kafka, Hive, HBase, Spark, Power BI
Application/Software: Odoo ERP, ZKTeco, Fingerprint Readers

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).*

SAHAKRINPHEAP MICROFINANCE PLC, Phnom Penh, Cambodia • 09/2021 – 04/2024
A financial institution in Cambodia, specializing in providing loan and savings services.

Senior .Net Developer & Core Banking Officer
Designed and implemented software solutions for core banking systems, focusing on full-stack development, automation, and improving operational efficiency.

- Consolidated two .NET Framework Windows apps into a single, dynamic solution, enhancing maintainability and doubling productivity for the core banking team.
- Optimized complex plug-in queries and implemented caching & indexing, reducing report load times to under 1 second.
- Improved monthly report speed (from 2 minutes to less than 2 seconds) using ELT pipelines, cleaned joins, and query indexing.
- Developed a real-time push notification system via Telegram Bot API, improving core system reliability by 98%.
- Revamped legacy-reporting tools with secure ASP.NET MVC (CORS, authentication, SQL injection protection).
- Built automated reporting workflows using .NET ETL techniques, boosting transparency and reducing data access latency by 99%.
- Integrated ZKTeco biometric system with backend services, automating attendance tracking for 200+ staff, cutting payroll delays by 90%.
- Architected microservices for report generation and attendance, enabling modularity and parallel deployment.
- Deployed AWS S3 for secure, centralized file storage across the reporting and notification system.

Technologies Used: *C#, ASP.NET MVC, .NET Framework, SQL Server, PostgreSQL, AWS S3, Microservices, Telegram Bot API, Docker, Visual Studio*

PATHMAZING INC, Phnom Penh, Cambodia • 05/2020 – 09/2021

Software Development Company.

.NET Full-Stack Developer
- Developed Odoo ERP Web Portal and Web API for enterprise clients using Python and RESTful APIs, successfully meeting custom client requirements and achieving 95% customer satisfaction.
- Integrated ABA PayWay payment gateway into Odoo, enhancing transaction efficiency and streamlining payment processing.
- Created the KhmerCare web app using Next.js, supporting 198+ fundraising campaigns, recognized as the company's most impactful launch of the year.
- Built backend services for KhmerCare using .NET and SignalR for real-time communication via WebSockets, improving user experience and reducing latency.
- Developed Firearms Metrics Platform using React.js to streamline reporting for law enforcement, reducing report delays by 30%.
- Delivered additional functionality for Firearms Metrics Platform by integrating .NET services to enhance reporting efficiency and data processing.

Technologies Used: *C#, .NET Web API, Odoo (Python), React.js, Next.js, SignalR, PostgreSQL, Git, Docker.*

ANAKUT DIGITAL SOLUTION CO. LTD, Phnom Penh, Cambodia • 05/2019 – 05/2020
Software Development Company.

.NET & Angular Developer
- Built a POS system with C#, .NET Core, and Angular, automating inventory management and improving sales accuracy for retail clients, resulting in a 20% increase in operational efficiency.
- Enhanced hotel operations by building a custom Hotel Management System using Angular and ASP.NET MVC, boosting check-in/booking efficiency by 40%.
- Delivered a Clinic Management System using .NET and Angular, automating appointment scheduling and medical record management, reducing client service time by 60%.
- Integrated POS system with a weighing machine using .NET and serial communication, automating data capture from the scale and ensuring accurate inventory and transaction tracking, reducing manual errors by 99%.

Technologies Used: *C#, ASP.NET MVC, Angular, SQL Server, Git, Visual Studio Code.*

ACADEMIC PROJECTS

Maharishi International University (2024)
- **MEAN Restaurant:** The MEAN Restaurant project is a web app for managing restaurant data, completed within a weekend. It supports user registration, CRUD operations for restaurants and dishes, and role-based access. Registered users can add restaurants, while others can view and filter them. Built with MongoDB, Express.js, Angular, Node.js, Git, and JWT.

- **Real-Time Stock Data Streaming and Visualization:** The Real-Time Stock Data Streaming and Visualization project streams and visualizes stock data using Kafka for ingestion, HBase for scalable storage, and Hive for querying. Spark ensures fast data processing, while Power BI provides real-time insights via ODBC. Built with Kafka, HBase, Hive, Spark, Power BI, Java, and Draw.io.

- **Authentication Web Application:** The Authentication Web Application enables user sign-up, login, and profile management with seamless updates. Built with AWS services, it ensures high availability, security, and scalability. Automated CI/CD pipelines streamline development and deployment. Utilized AWS S3, Lambda, DynamoDB, CloudFormation, CodePipeline, Bash, and Git.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Algorithm, Big Data Technologies, Cloud Computing, Modern Web Development

Bachelor of Science in Computer Science
Royal University of Phnom Penh, Phnom Penh, Cambodia (11/2020)