**PHONG LU**

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**SENIOR FULL STACK .NET DEVELOPER**

Experienced Full Stack Developer with 16 years of hands-on experience including the latest 4 years of experience leading teams in developing new web applications that maintain scalability and integrate with systems. Ensured quality and performance while delivering complex projects according to requirements and deadline specifications.

Skilled in using technologies such as C#, .NET (Framework, Core), JavaScript, Entity Framework, GraphQL, SQL Server, MySQL, PostgreSQL, NodeJS, Next.js, React, Angular, and AWS Cloud services.

Skills acquired at MIU University: Java, Spring Boot, Hadoop, and Spark.

Frontend / Backend Development · Microservices · Design Patterns · Dependency Injection  
Requirements Analysis · Continuous Integration / Continuous Delivery

**Frameworks:** .NET (Framework, Core), NodeJS, Angular, Django  
**Languages:** *C#*, JavaScript, Typescript, Python   
**Databases:** SQL Server, MySQL, PostgreSQL, MongoDB **Web:** Web API, React, XML, Ajax, jQuery, HTML5, CSS3, NUnit, Bootstrap, Tailwind, WebSocket, SOAP, Microservices

**Libraries**: Express, Entity Framework Core, Kafka, Power BI, Memcached, Redis, Lucene, Elasticsearch, RabbitMQ

**Cloud Services**: AWS (EC2, Lambda, Aurora, API Gateway, IAM, S3, Glue, CloudWatch), Azure (Virtual Machine, Blob)  
**Web Servers**: IIS, HA Proxy, Availability Group  
**Web/App Services:** REST API, GraphQL   
**Design Patterns:** MVC, Singleton,Observer, Façade, Strategy, Template, Iterator, Composite, Command, State, Proxy, Decorator  
**SDLC:** Waterfall, Agile / Scrum  
**Tools:**  Visual Studio, VS Code, JetBrains, Navicat

**Platforms:** Windows, macOS

**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).*

**MASS.GOV, Boston, MA, USA · 2023-Present**

An official website of the Commonwealth of Massachusetts.

**Senior .NET Developer**

Designed, developed, and deployed:

* Internal systems: Created and maintained internal tools for data management, workflow automation, and other administrative needs.

Collaborated:

* Worked closely with business analysts, stakeholders, and other developers to understand requirements, define solutions, and implement them effectively.
* Participated in Agile development methodologies, including sprint planning, daily stand-up meetings, and code reviews.

Maintained and improved:

* Refactored existing code bases to enhance performance, reliability, and maintainability.
* Implemented automated testing strategies to ensure code quality and stability.
* Documented technical specifications and workflows for internal knowledge sharing.

Contributed to a positive work environment:

* Proactively identified and addressed potential issues, proposing solutions and improvements.
* Maintained a professional and collaborative attitude, fostering a positive team dynamic.

***Technologies Used:*** *C#, .NET Framework & Core, Web API, Entity Framework, SQL Server, Redis, AWS.*

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**TOPENLAND, Ho Chi Minh City, Vietnam · 2021-2022**

Real Estate platform startup company.

**Senior Software Developer**

Collaborated with team to create a Real Estate Platform using clean architecture and deployed on Azure Cloud Platform. Ensured scalability with .NET Core for Microservices and Citus PostgreSQL.

* Analyzed requirements to develop new Microservice.
* Integrated 4 frontends with backend services using Next.js and GraphQL.
* Built 10 Microservices using .NET Core
* Streamlined build time for frontend in Next.js by using continuous integration and delivery.

***Technologies Used:*** *C#, .NET Core, Web API, GRPC, GraphQL, Entity Framework Core, Citus PostgreSQL, NodeJS, Next.js, React, Redis, Bootstrap, Tailwind, Azure (Virtual Machine, Blob).*

**VINHMS, Ho Chi Minh City, Vietnam · 2018-2020**

Startup technology company for property management systems.

**Development Team Lead**

Provided Microservice and technical guidance for new hospitality startup companies while leading a development team of 10 people.

* Spearheaded development of Identity Service using OAuth2 protocol with efficient authorization flow.
* Integrated with 20 outsourced team members across multiple outsourcing companies.
* Created 20 Microservices and numerous frontends with scalability to deploy in any environment.
* Implemented a Data Warehouse approach to support ETL and report generation.

***Technologies Used:*** *C*#, *.NET Core, Web API, Entity Framework Core, NodeJS, Angular, React, Redis, Kafka, PowerBI, AWS (EC2, Lambda, Aurora, API Gateway, IAM, S3, Glue, CloudWatch).*

**NASHTECH, Ho Chi Minh City, Vietnam · 2018-2018**

Top 5 outsourcing company

**Technical Architect**

Joined SWAT team to be ready for the most complicated tasks and challenges. Bidding for new projects, technical support and technical consulting for projects are my main tasks. As a technical architect, working on the high-level concept to provide visionary scenarios for clients and watching projects for potential issues.

***Technologies Used:*** *C*#, *.NET Core, Web API, Entity Framework Core, Azure Cloud (Virtual Machine).*

**DZONES, Ho Chi Minh City, Vietnam · 2016-2018**

A technology company specializing in building a social network.

**Software Development Manager**

Developed Web Services using Microservices architecture to generate data and interactions on multiple devices. Strengthened team by mentoring and coaching members.

* Created Microservices with Python, Django, and MySQL.
* Enhanced search speed with the ElasticSearch system, according to the testing team.
* Decreased service wait time, per testing team, by implementing the Active Caching method on Redis.

***Technologies Used:*** *Python, Django, MySQL, Memcached, Redis, Elasticsearch, RabbitMQ, NodeJS, React, Bootstrap, HTML, CSS, jQuery.*

**SIMPLE SOLUTIONS, Ho Chi Minh City, Vietnam · 2015-2016**

Software development company for Point-of-Sale systems.

**Development Team Lead**

Developed product and led 4 people contributing to end-to-end development of an innovative product funded by Coca-Cola company.

* Oversaw product operations and guided the team in using the latest technologies and trending processes.
* Optimized quality of all developed products.
* Achieved coding standards by continuously providing technical guidance to developers.

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* Resolved bottleneck of the import process, as reported by the manager resulting in increased system usability and decreased processing time from 2 hours to 10 minutes.
* Reduced process time by 50% and maximized continuous integration processes by establishing Unit test environment and successfully implementing test cases measured by TeamCity.

***Technologies Used:*** *C#, Web API, SQL, Entity Framework, Bootstrap, HTML, CSS, jQuery, AngularJS, Redis, Lucene, HA Proxy, Availability Group.*

**NETPOWER, Ho Chi Minh City, Vietnam · 2010-2015**

An outsourcing technology company.

**Senior .NET Developer**

Collaborated with the management team to complete a modular web-based system despite technical issues and challenging deadlines.

* Increased visibility throughout project progress, workflow, and collating information using Pro5.
* Provided support to team members in understanding business logic from the technical view.
* Created dashboards and integrated continuous integration and schema changes.

***Technologies Used:*** *C#, Web API, SQL, Entity Framework, Bootstrap, HTML, CSS, jQuery, AngularJS, Full-Text* Search*, Lucene.*

**STRAWBERRY JAM, Ho Chi Minh City, Vietnam · 2010**

An outsourcing technology company.

**.NET Developer**

Collaborated with Vietnam and Japan teams to build customer projects, using both 4D and C#.

* Created a Customer Support System to manage customer support requests through embedded Team Viewer as a remote desktop tool.
* Designed a Massage Management System to manage order details, travel time, and supplies.

***Technologies Used:*** *C#, MySQL, 4D*

**UNIVERSITY OF TECHNOLOGY, Ho Chi Minh City, Vietnam • 2008-2010**

**.NET Developer**

Led development of websites and software systems.

* Designed a complete web-based information system.
* Created a corporate website for university alumni.
* Built an internal email broadcasting system using live accounts.

***Technologies Used:*** *C#, SQL Server, HTML, CSS, jQuery.*

**ACADEMIC PROJECTS**

**Library Management System, MIU (2022):** Created a system to manage borrowed books for the library. ***Technologies Used:*** *Swing.*

**Horse Racing System, MIU (2022):** Designed system to manage horse races and related entities. ***Technologies Used:*** *Node.js Express, Angular, MongoDB.*

**Bank Account Management, MIU (2022):** Built a Framework to increase the compatibility of software across numerous banks. ***Technologies Used:*** *Java.*

**Property Management System, MIU (2022):** Designed backend and frontend to show information for renters and property managers. ***Technologies Used:*** *Java Spring Boot, MySQL, React.*

**Recommendation Service, MIU (2022):** Created a Big Data system to handle the calculation of product recommendations. ***Technologies Used:*** *Java, Hadoop, Spark.*

**Personal Goal Tracker, MIU University, MIU (2022):** Implemented SPA to track user goals. ***Technologies Used:*** *Node.js, Express, Angular.*

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**EDUCATION**

**Master of Science in Computer Science (2022-2024)**

Maharishi International University, Fairfield, Iowa

*Key Course: Modern Programming Practices, Web Application Programming,*

*Advanced Software Development, Modern Web Applications, Big Data,*

*Web Application Architecture, Web Application Development 2*

**Bachelor of Software Development in Information Technology (2008)**

HUFLIT University, Ho Chi Minh, Vietnam