NGUYEN TRUNG TUYEN

Full-Stack Developer

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CAREER SUMMARY:

A skilled software developer with over 3 years of experience specializing in building scalable software solutions and leveraging cutting-edge technologies, including Artificial Intelligence (AI). Proficient in designing and implementing AI-driven features such as personalized learning paths, automated quiz generation, and activity recognition to enhance user experiences. Experienced in collaborating with international teams, managing cross-functional projects, and delivering innovative solutions.

HIGHLIGHTS:

- Expertise in C#, JavaScript, TypeScript, and Microservices with a strong understanding of SOLID principles.
- Hands-on experience with AI technologies such as TensorFlow, Scikit-learn, and their integration into real-world applications.
- Proficient in frameworks like .NET Core, Entity Framework, LINQ, and Angular (v9–18).
- Strong experience with Redis caching, Kafka messaging, and third-party integrations (e.g., Bosch, Caruso APIs).
- Familiar with Agile methodologies, Git, and delivering high-quality solutions in collaboration with international teams.

TECHNICAL SKILLS:

Programming languages
- **Primary:** C#, JavaScript, TypeScript, Python
- **Web Technologies:** HTML, CSS

Framework/Libraries
- **Backend:** .NET Core, ASP.NET MVC, Entity Framework, LINQ, Microservices
- **Frontend:** Angular (v9–18), Bootstrap
- **Other Libraries/Tools:** RxJS, Devextreme

Databases & Caching
- **Relational Databases:** MSSQL, MySQL
- **NoSQL Databases:** MongoDB
- **Caching:** Redis

DevOps & Tools:
- **Development Environments:** Visual Studio, VS Code
- **Version Control:** GitHub, GitLab
- **Collaboration Tools:** Azure DevOps, MS Teams

Specialized Skills:
- **AI & Machine Learning:** TensorFlow, Scikit-learn (for AI-related projects), OpenCV, YOLO
- **Third-party Integrations:** Bosch APIs, Caruso APIs

WORK EXPERIENCE:

TMA Solutions | Mar, 2022 - Present

➤ Fleet Manager, TecAlliance GmbH

Full-Stack Developer | Jun, 2022 - Present

From parts manufacturers to dealers and trade, to workshops and fleet operators, automotive aftermarket players advance their business through the power of standardized data.

Technologies

- Backend: C#, .NET Core, Microservices, Entity Framework, LINQ
- Frontend: Angular, JavaScript, HTML, CSS, Bootstrap
- Databases: MSSQL, MongoDB
- Caching: Redis, Memory Cache
- Message Broker: Kafka
- Tools: MS Teams, Azure DevOps

Duties

- Designed and optimized new features, improving performance by 20%.
- Upgraded Angular (v9 to 18), enhancing maintainability and scalability.
- Integrated Redis caching and Kafka for better data processing and communication.
- Worked directly with BAs, developers, and test teams in Germany to align project requirements.
- Integrated third-party services such as Caruso and Bosch into the platform.
- Resolved critical hotfix issues

➤ TLearning, TMA Solutions

Team Leader | Mar, 2023 - Present

Led a team to develop an advanced online e-learning platform integrating LMS functionalities with AI-powered features, catering to both individual learners and corporate training needs.

Technologies

- Backend: C#, .NET Core, Entity Framework, LINQ
- Frontend: Angular, JavaScript, HTML, CSS, Bootstrap
- Specialized Tools: BigBlueButton, Canvas LMS
- Databases: MSSQL
- Development Tools: GitLab, Scrum
- AI Solutions: Python, TensorFlow, Scikit-learn, OpenCV, YOLO

Duties

- Collecting requirements, discussions with customers, and technology suggestions to streamline the work
- Developing the company's idea to market segments to test ideas in a real context
- Clarify requirements, design and support implement new features
- Automated personalized learning creation using AI, reducing manual effort and increasing engagement.
- Managed a Scrum team, improving productivity and ensuring timely delivery of project milestones.

➤ Devices Management, TMA Solutions

Full-Stack Developer | Mar, 2022 - Jun, 2022

Developed a web-based solution for IT administration to efficiently manage and monitor devices based on operational performance, security, and availability.

Technologies

- Backend: C#, .NET Core, Entity Framework, LINQ
- Frontend: Angular, JavaScript, HTML, CSS, Bootstrap
- Databases: MSSQL

Duties

- Designed and implemented key features, reducing manual administrative effort
- Resolved critical bugs, ensuring system uptime
- Improved device monitoring efficiency by optimizing backend queries.

Freelance | Nov, 2021 - 2024

➤ **Game Tool Automation**

Computer Vision Developer | Nov, 2021 - 2024

Automated gaming processes by leveraging object detection and AI-based computations. Designed and optimized solutions to meet customer-specific requirements.

Technologies

- Programming: Python, Tkinter
- AI & Machine Learning: Computer Vision, AI, Machine Learning
- Databases: MSSQL, SQLite

Duties

- Gathered and analyzed customer requirements to design innovative features.
- Developed and deployed object detection algorithms, improving task efficiency by 30%.
- Fixed internal bugs and provided solutions for customer-reported issues.

EDUCATION:

Ho Chi Minh University of Technology | *2018 - 2022*

Degree of Engineer - Software Engineering

GPA: 3.83/4.0

Graduated valedictorian with a GPA of 3.83/4.0, ranked top in the cohort

Ho Chi Minh University of Technology | *2023 - Present*

Master of Science - Computer Science

RESEARCH EXPERIENCE:

Enhancing Human Activity Recognition Model Performance Through KMeans-Based Stratified Data Splitting

Accepted for publication in Measurement and Control journal (2025)
DOI: 10.1177/00202940241312873
Role: First Author

ACHIEVEMENTS:

Ho Chi Minh University of Technology | *2018 - 2022*

- Top Excellent Students HUTECH | *2019* | *2021*
- 3rd Prize Talented HUTECH Scholarships | *2019,* 1st Prize | *2021*
- The FPT Scholarships | *2019,* The DXC Vietnam's Scholarships | *2022*
- "Student with 5 Good Merits" at Faculty level | *2019* | *2020* | *2021*, at University level | *2021*
- 2nd Prize in Digital Race HUTECH | *2020*
- The topic of the 23rd EURÉKA Prize Competition in 2021 | *2021*
- 1st Prize, 2nd Prize, Consolation Prize in IT Got Talent | *2022*, Consolation Prize | *2020*
- Graduated valedictorian | *2022*

TMA Solutions | *Mar, 2022 - Present*

- 2nd Prize, Consolation Prize in TMA's Got Talent 2024 | *2024*
- TMA Quarterly Star Performer QIII/2024 | *2024*
- 2nd Prize, 3rd Prize in Innovation Contest - AI for Business 2024 | *2024*
- TMA Quarterly Star Performer QIV/2024 | *2024*

LANGUAGES:

Vietnamese   English

INTERESTS:

Research | Artificial Intelligence | Football | Reading | Video games | Music