





# Tran Thanh Danh

## Senior Full Stack Developer

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### Profile

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I am a full-stack engineer with over 9 years of experience, specializing in various leading-edge technologies such as Angular, React, Next.js, Vue.js, Python, Golang, AWS, Blockchain, NFTs, Web3, and Smart Contracts. I ensure the best practices in designing, developing, deploying, and maintaining high-quality web applications and websites.

I have deep expertise in AWS DevOps and the Serverless framework, specifically in AWS Lambda and Amplify, including AppSync. Expert knowledge of backend development using Golang, Node.js, C#, and Python programming languages. Strong hands-on experience in REST API development; extensive experience with NoSQL and SQL databases such as MongoDB, DynamoDB, RDS, MySQL, Postgres.

My skill set encompasses deep understandings of AWS services such as Serverless, EC2, S3, CloudWatch, ElasticSearch, SQS, and SNS. Furthermore, I do have practical experience with the use of Git, Jira, and Docker in rearing effective project management and deployment. I am proficient in the usage of TypeScript, JavaScript, React Native, Flutter.

I am committed to only the best products and assure complete customer satisfaction with my focus on quality and delivery of clean, maintainable code. My optimistic and diligent disposition propels me to always go over and above expectations to achieve outstanding results.

Thank you for viewing my profile.

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### Experience

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**Full Stack Engineer, Reality Fence** - Spearheaded AI technology integration, enabling innovative features in image generation and chatbot development. - Fostered a collaborative team environment, resulting in a 25% increase in productivity and significant reduction in development cycles. - Engineered version 2.0 of the fishing map web application, migrating from PHP to React and Preact. - Developed storefront pages using Elementor on WordPress, integrating plugins like generate\_child and updating course pages to align with new Figma designs. - Enhanced fishing map mobile applications for Android and iOS, implementing new waypoint features using Flutter and React Native. - Architected and launched a blockchain-based GameFi application with NFT assets and P2E mechanics, attracting over 10,000 active users within the first month. - Led the development of a decentralized NFT marketplace on Polygon, ensuring secure and efficient transactions. - Implemented smart contracts on Ethereum and Binance Smart Chain for various DeFi projects, expanding the company's blockchain portfolio. - Contributed to the design and development of a metaverse project, integrating immersive experiences with blockchain technology to enable true digital ownership.

04/2023 – 03/2024  
Michigan,  
United States

### Technical Skills:

- Languages & Frameworks: Go, C++, React, Next.js, Node.js, HTML5, CSS3, JavaScript/TypeScript, React Native, Flutter, SQL
- Blockchain Technologies: Polygon, ImmutableX, Ethereum, Solana, Solidity, Web3.js
- AI Technologies: ChatGPT, Chatbots, Image Generation, NLP, Computer Vision, Generative AI, Conversational AI
- Additional Skills: AWS, Azure, PHP (WordPress plugin development), Python (integration tests), Software design patterns, Data structures, Algorithms

#### **Full Stack Engineer, Merkle Root**

03/2021 – 03/2023  
Columbia,  
United States

- Architected and developed 20+ front-end and back-end applications utilizing Angular, React.js, Node.js, GraphQL, and TypeScript.
- Designed and managed robust NoSQL databases to support application functionality.
- Developed 40+ applications following Agile methodologies and microservice architecture with RabbitMQ.
- Successfully built and launched key features for the company's flagship product, resulting in a 20% increase in user engagement and retention.
- Optimized page load times by 40% through effective techniques, significantly enhancing overall user experience.
- Collaborated with cross-functional teams across multiple countries, including Brazil, Germany, and Poland.
- Improved productivity by 130% through implementation of Agile methodologies and CI/CD pipelines using Jenkins and Travis CI.

#### **Technical Skills:**

- Front-End: React, TypeScript, Next.js, Angular, HTML5, CSS3, JavaScript
- Back-End: Node.js, Go, Express.js, SQL, NoSQL
- APIs & Services: RESTful APIs, GraphQL
- Testing: Jest, Mocha, Cypress
- Tools & Methodologies: Git, Docker, Agile/Scrum, CI/CD pipelines
- Additional Skills: Performance optimization, System architecture, Code reviews

#### **Blockchain Developer, DMG Blockchain**

01/2020 – 02/2021  
Vancouver, Canada

- Developed smart contracts using Solidity for various blockchain applications.
- Created a Minting Game with Non-Fungible Tokens for character acquisition and development.
- Engineered an NFT Marketplace enabling users to upload, create, and purchase Zombie cards.
- Developed modern smart contracts using Rust on Solana platforms.
- Implemented Inter Planetary File System (IPFS) for decentralized storage and access of files, websites, applications, and data.
- Gained proficiency in various development platforms including Truffle, Hardhat, Remix, and Ganache.
- Developed and deployed cryptocurrency and cryptocurrency wallet solutions.
- Executed ICO and Crowd Sale implementations using Solidity.
- Implemented advanced cryptography techniques in blockchain projects.

#### **Technical Skills:**

- Languages & Frameworks: Go, React, Next.js, Node.js, HTML5, CSS3, JavaScript/TypeScript, SQL
- Blockchain Technologies: Polygon, ImmutableX, Ethereum, Solana, Solidity, Web3.js

- Additional Skills: AWS, Azure

**Frontend Developer, SPHERE PARTNERS**

05/2016 – 11/2019  
Montreal, Canada

- Led frontend development using Vue.js, integrated with Laravel backend, and leveraged AWS S3 and RDS.
- Actively participated in sprint planning and execution within an Agile framework.
- Developed and validated web pages using React, ensuring high-quality and responsive design.
- Designed 8 project requirements and wireframes using Axure and Photoshop, contributing to comprehensive project documentation.
- Resolved 100+ bugs and issues, enhancing troubleshooting and debugging skills while maintaining websites throughout the production lifecycle.
- Collaborated in an Agile environment to gather design requirements, conduct peer programming, and rigorously test applications.

**Technical Skills:**

- Front-End: React, TypeScript, Next.js, HTML5, CSS3, JavaScript
- Back-End: Node.js, Go, SQL, NoSQL
- APIs & Services: RESTful APIs, GraphQL
- Tools & Methodologies: Git, Docker, Agile/Scrum, CI/CD pipelines

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**Education**

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**Bachelor of Computer Science, Carnegie Mellon University**

2014 – 2018  
Pittsburgh,  
United States

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**Skills**

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**Frontend Development** React, Angular, Vue.js, Next.js, TypeScript, JavaScript, HTML5, CSS3

**Blockchain Technologies**

Ethereum, Polygon, Solana, Binance Smart Chain, ImmutableX, Smart Contracts, Solidity

**Databases (SQL/NoSQL)**

PostgreSQL, MySQL, MongoDB, AWS DynamoDB, Redis

**SDLC**

Agile, Scrum, TDD and BDD

**CI/CD pipeline**

Github Actions, AWS ECS/EKS, Jenkins

**Version Control**

Git, SVN

**Backend Development**

Node.js, Golang, Nest.js, Python/Django/Flask, C#/.NET

**API and messaging**

Restful API, GraphQL, Apache Kafka, Amazon SQS/SNS

**Virtualization, containerization**

Docker, Kubernetes

**DevOps engineering**

AWS, Terraform

**Unit testing**

Mocha, Chai, Jest, Jasmine, Karma

**Ticket management**

Jira, Trello