




# TU PHAM

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## Skills

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- Python | JavaScript | TypeScript | PHP | Bash | PowerShell | SQL | React/Redux | Angular | Vue | Next.js | HTML5/CSS3 | SASS | jQuery | Bootstrap | Node.js | Express | WebSockets | Git
- AWS | Azure | Docker | Kubernetes | Terraform | Serverless | Jenkins | GitHub Actions | CI/CD | OOP | MVC | Microservices | Full-Stack
- Power BI | Snowflake | dbt | ETL | Prometheus | Grafana | Splunk | Kibana | RESTful API | GraphQL | Jira | Agile/Scrum | English

## Experience

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| <b>Software Engineer</b>   | <b>Cox Automotive Inc. (via FPT Software)</b> | <b>04/2024 - Present</b> |
| <ul style="list-style-type: none"><li>• Implemented an enterprise-scale Power BI visualization platform with a ReactJS frontend serving ~100,000 users, featuring embedded reports, automated scheduling, multi-format export capabilities, and real-time data processing.</li><li>• Engaged in the strategic migration of 200+ legacy JasperSoft reports to the Power BI platform, saving \$1.5M annually in licensing and infrastructure costs while improving report performance by 30%.</li><li>• Developed a comprehensive Power BI reporting suite with real-time data processing capabilities, reducing manual reporting time by 50% and enabling data-driven decision making.</li><li>• Implemented automated data validation and reconciliation processes (including sophisticated Excel-to-CSV comparison tools).</li><li>• Created automated alerting systems for data anomalies and market trends, enabling proactive business responses.</li></ul>  |   |                          |
| <b>Software Engineer</b>   | <b>Cox Automotive Inc. (via FPT Software)</b> | <b>05/2021 - 04/2024</b> |
| <ul style="list-style-type: none"><li>• Designed and implemented a scalable data orchestration framework handling 10 GB of data daily across 50+ AWS services, leveraging AWS Step Functions to integrate datasets from multiple sources and reducing data processing latency through optimized parallel processing and strategic use of AWS Glue, EMR, and Lambda functions.</li><li>• Engineered 200+ Python Lambda functions for real-time data transformation and event-driven processing with an auto-scaling serverless architecture.</li><li>• Developed key components of an enterprise-scale multi-petabyte data lake on S3 with intelligent tiering, implementing integrations between Snowflake, dbt transformations, and the Collibra governance platform with AWS Glue Data Catalog for automated lineage tracking, enabling self-service analytics for 100+ curated datasets.</li><li>• Designed and deployed a complete AWS infrastructure using Terraform, managing 50+ AWS services across multiple environments, and established cost optimization strategies through resource tagging and automated scaling, reducing infrastructure costs by 15% and deployment time by 70%.</li><li>• Implemented enterprise monitoring and security framework using CloudWatch, Splunk, Aqua Security, and PagerDuty with 100+ custom metrics and alerts across data pipelines, and developed real-time anomaly detection systems using AWS CloudWatch Anomaly Detection and custom Python algorithms, reducing incident response time by 60%.</li></ul> |   |                          |
| <b>Software Engineer</b>   | <b>Cox Automotive Inc. (via FPT Software)</b> | <b>08/2020 - 04/2021</b> |
| <ul style="list-style-type: none"><li>• Migrated CI pipelines from Bamboo to Jenkins, modernizing build and deployment processes and implementing automated CI/CD workflows using Jenkins, GitHub, and Maven.</li><li>• Developed Bash and PowerShell scripts for build, release, and infrastructure automation.</li><li>• Designed, built, and managed Docker containers for application deployment and scaling, maintained Docker images and orchestrated multi-container applications.</li><li>• Managed AWS environments (EC2, RDS, API Gateway, Lambda) and implemented monitoring with CloudWatch and CloudTrail.</li><li>• Researched and integrated new DevOps tools and best practices for deployment and dependency management.</li></ul>  |   |                          |
| <b>Software Engineer</b>   | <b>FPT Software</b>                           | <b>06/2018 - 06/2020</b> |
| <ul style="list-style-type: none"><li>• Developed and implemented new features across both front-end and back-end, enhancing platform functionality and user engagement.</li><li>• Optimized front-end performance by 30% through experimentation and adoption of modern frameworks.</li><li>• Redesigned UI/UX to improve usability, accessibility, and overall user satisfaction.</li><li>• Engineered seamless integration between C++ and JavaScript using Qt Web Engine for advanced client-server communication.</li><li>• Researched, evaluated, and integrated new tools and best practices to streamline deployment processes and manage dependencies efficiently.</li></ul>  |   |                          |

## Education

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<b>Bachelor of Information Technology</b>	<b>Industrial University of Ho Chi Minh City</b>	<b>08/2014 - 08/2018</b>
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