

Khanh Van

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Summary

Experienced Software Developer with hands-on experience in Software Development and Algorithm Design. Strong foundation in building robust, scalable applications and optimizing complex systems. Experienced in building and maintaining CI/CD pipelines, automation, cloud infrastructure, and developing AI/ML models. A problem-solver, perfectionist, and dedicated to crafting innovative solutions. Highly skilled in Java, C/C++, Python, JavaScript, and other key software development technologies.

Experiences

Software Development Engineer | Paycom

June 2025 - Present

PHP, C#, JavaScript, React, MySQL, Docker, Kubernetes

Irving, TX

- Develop and maintain Scheduling module features, including Scheduling Archiving System, Exception Points Calculations, and Schedule Employee Interface.
- Collaborate with other Developers, Software QAs, and DevOps teams to enhance product functionality and ensure quality deliverables.
- Integrate development code with CI/CD pipelines (e.g., GitLab) to streamline deployment and ensure consistent delivery

Full-Stack Developer | QHung

Oct 2024 - June 2025

Java, Spring Boot, AWS, PostgreSQL, Docker

Richardson, TX

- Designed and developed a responsive company website with a tenant portal, rent payment processing, and MLS IDX integration.
- Built and deployed on AWS using Java, Spring Boot, and PostgreSQL
- Streamlined tenant communication and data management processes, improving operational efficiency.
- Maintained and updated applications and lease records, ensuring data accuracy and compliance.

Software Engineer Intern | Alkami Technology

June 2024 - Sep 2024

Java, Python, Scikit-Learn, Spring Boot, REST API, AWS, PostgreSQL, Docker, Jira

Plano, TX

- Designed a rule-based and ML-augmented backend service in Java and Python to flag potentially fraudulent transactions in real time based on user behavior patterns and transaction anomalies.
- Integrated detection logic with PostgreSQL and exposed secure RESTful APIs for downstream alerting and review workflows.

Mentor / Tutor | Computer Science Mentor Center - UT Dallas

Jan 2024 - May 2025

Java, C++, Bash, Eclipse, VSCode, O.O.P., Mentorship

Richardson, TX

- Tutor students in C++, Java, Data Structures, and Algorithms. Assisting with homework, projects, and exam preparation.
- Help students understand complex Discrete Mathematics and Computer Architectures.
- Provide personalized guidance to improve problem-solving skills, coding techniques, and theoretical understanding.

Retail IT Intern | Royal Dutch Shell

June 2019 - Aug 2020

C++, ServiceNow, API, Analysis, Research, Planning

Houston, TX

- Contributed to the development of the "Arrived At The Station" feature in the "Shell US & Canada" app by integrating Google Maps API and geofencing technology, enabling real-time user notifications upon gas station arrival.
- Collaborated with the backend team to implement RESTful APIs for seamless communication between the mobile app and server-side systems.
- Performed functional testing and assisted in debugging using tools, reducing deployment delays by 12%

Education

Bachelor of Science in Computer Science, University of Texas at Dallas

2023 - 2025

Collegium V Honors

GPA: 3.7 / 4.0

Master of Science in Computer Science, University of Texas at Austin

2027 (Expected)

GPA: TBD

Skills

Languages: Java, C/C++, Python, JavaScript, C#, PHP, PostgreSQL, MySQL, MongoDB

Frameworks: Spring Boot, React.js, Node.js, Flask, Selenium, JUnit

Tools: AWS, Docker, CI/CD, Scikit-Learn, Maven, Postman, J Notebook

Projects

BotStonkWar | feature-webapp.emerginary.com

Jan 2025

JavaScript, Next.js, React, Python, Docker, Kubernetes, MySQL

- Built a trading agent that suggests trades using real-time sentiment analysis from scraped financial news and numerical trading algorithms.
- Designed modular strategies (e.g., short-term volatility, sentiment consensus) deployed via Docker and Kubernetes in a microservices architecture.
- Used MySQL for storing market data, sentiment scores, and historical trade outcomes to support strategy optimization.

CI/CD Pipeline for Capstone Project

Jan 2025

Python, Flask, Bash, Git, GitHub Action, Docker, Kubernetes, Nginx

- Developed a CI/CD pipeline for seamless integration and deployment of microservices using Python, Docker, Kubernetes, Flask, and Nginx.
- Implemented microservice architecture to facilitate communication between applications, ensuring smooth and efficient updates and deployment.

U.S. Annual Fall Foliage Prediction ML Model | fallfrenzy.online

Nov 2024

Python, Flask, Docker, Scikit-Learn, Postman, Jupyter Notebook, AWS EC2

- Built an AI/ML model using Python and scikit-learn to predict fall foliage patterns across the U.S.
- Utilized historical foliage data and weather conditions to aid tourism planning, environmental research, and conservation efforts.

Ingredience | ingredience.site

Sep 2024

JavaScript, React.js, Node.js, HTML, CSS, AWS EC2

- Developed a full-stack web app to track kitchen inventory, monitor expiration dates, and identify low stock items
- Generated shopping lists and recipes based on available ingredients
- Built with JavaScript, Node.js, React, and MongoDB to ensure smooth user interactions

Campus Involvements

Research Associate | Artificial Intelligence Research

Oct 2024 - May 2025

University of Texas at Dallas

- Conducting research on computational meme understanding by constructing AI model datasets
- Curating and annotating meme data to enhance machine learning models' ability to interpret cultural and contextual nuances
- Collaborating to develop methodologies for analyzing visual and textual elements in memes with applications in NLP and computer vision.