

Vishnu Tej Nanda Kumar

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Experienced Software Engineer proficient in Java, Go, and React, specializing in developing scalable microservices for both cloud and on-premises environments. Successfully led the CRA's T3 Modernization project, enhancing tax processing for over half a million users. Dedicated to delivering secure, high-performance solutions and improving CI/CD efficiency through agile process automation and robust coding practices.

CORE SKILLS

Languages & Frameworks: Java, Spring Boot, Python, Go, React.js, TypeScript

Architecture: Microservices, REST APIs, GraphQL, Secure Transaction Processing, High-Transaction Systems

Cloud: Microsoft Azure (Blob, Cosmos DB, AKS, API Gateway), AWS (Lambda, EC2, S3, SNS)

DevOps: Docker (Containerization), Kubernetes, GitLab, GitHub Actions, CI/CD, Git

Data & Messaging: PostgreSQL, MySQL, Oracle, MS SQL Server, Apache Kafka, MongoDB (NoSQL)

Other Tools and Technologies: JIRA, Confluence, Agile/Scrum, JUnit, Mockito, OAuth2, JSON Web Token (JWT)

Soft Skills: Problem-Solving, Team Collaboration, Communication, Adaptability, Critical Thinking

PROFESSIONAL EXPERIENCE

Canada Revenue Agency

Dec 2023 – Mar 2025

Software Developer/ Analyst - CS 2

Halifax, NS, Canada

- Designed a SaaS platform for high-volume tax processing on Microsoft Azure, supporting millions of users with scalable microservices and REST/GraphQL APIs.
- Optimized APIs to reduce front-end data load by 30%, enhancing real-time performance for distributed, high-transaction systems.
- Re-architected legacy systems into Dockerized microservices using Kubernetes, improving system uptime by 20%.
- Implemented OAuth2 and JWT authentication for secure API gateways, ensuring compliance with cybersecurity standards.
- Built automated CI/CD pipelines with GitHub Actions and Jenkins, reducing deployment times by 40% and improving delivery efficiency.
- Collaborated with product managers and designers in Agile sprints to translate requirements into technical specifications, mentoring junior developers.

Canada Revenue Agency

May 2023 – Dec 2023

Software Developer - Co-op

Halifax, NS, Canada

- Debugged and optimized PostgreSQL and DB2 database synchronization, improving query performance by 20% through indexing and schema design.
- Modularized code for scalability, resolving critical bugs through root-cause analysis to ensure system reliability.
- Contributed to microservices development, enhancing integration and stability in a fast-paced Agile environment

Micro Focus / OpenText

Aug 2020 – Aug 2022

Software Engineer (Identity and Access Management)

Bengaluru, KA, India

- Developed secure REST APIs in Java and Python for enterprise IAM microservices, handling 70% of API development and ensuring scalability.
- Built Kafka-based messaging for Azure-on-premises interoperability, streamlining secure workflows for distributed systems.
- Automated database configuration with Python scripts, reducing setup time by 90% and enhancing operational efficiency.
- Delivered React.js and Node.js components for consistent IAM interfaces, improving front end performance and user experience.
- Mentored junior developers in Agile teams, driving CI/CD processes with Jenkins and ensuring high-quality, maintainable code.

EDUCATION

MSc in Computing and Data Analytics

Saint Mary's University

Sep 2022 – Dec 2023

Halifax, NS, Canada

Relevant Coursework: Big Data, AI and ML, Android Development (Kotlin), App Development (Node.js, React Native, .NET (C#)), Cloud Integration – AWS and Azure

Bachelor's in Computer Science Engineering

Visvesvaraya Technological University

Aug 2016 – Aug 2020

Bengaluru, KA, India

Relevant Coursework: Software Development, Engineering Mathematics, Data Structures and Algorithms, Artificial Intelligence and Machine Learning, Cloud and IOT

PROJECTS

Portfolio Website – github.com/vishnutejnk/Portfolio

Technologies Used: React.JS, TypeScript, HTML, CSS, Tailwind CSS

- A stellar-themed React portfolio with custom animations.
- Implemented state management for maintaining user's theme preference on reload.
- Deployed on Vercel app and hosted on custom domain.

Speed Kart – github.com/vishnutejnk/speedkart-ui - Quick-commerce web app for grocery ordering

Technologies Used: .NET, React, Node, Azure SQL Database, MSSQL, RESTful APIs, Google Address Validation API

- Designed Azure SQL database for customer, product, and order data.
- Built REST APIs in ASP.NET for user authentication, session management, and order processing.
- Developed React.js UI components and integrated Google Address Validation API.
- Deployed dockerized app on Azure, ensuring scalability and performance.

FACE(R) - [Face-R-Final-Report.pdf](#) Facial Analysis using CNN for Emotion Recognition

Technologies Used: Python, Pandas, NumPy, Matplotlib, SciPy, OpenCV, CNN, TensorFlow, Deep Learning

- Developed a real-time emotion recognition system using an 8-layer CNN trained on FER2013, achieving 85%+ accuracy.
- Processed live video input with OpenCV; extracted and classified facial expressions into 7 emotion categories.
- Optimized model with dropout, ReLU activations, and SoftMax output; deployed using pre-trained weights for fast inference.
- Explored use cases in surveillance, education analytics, and customer sentiment detection.

CERTIFICATIONS/ ACHIEVEMENTS

- [Microsoft Azure AZ-900 Cloud Fundamentals Certification](#)
- Executive-to-Employee Recognition by [John Delk](#) at Micro Focus / Open Text.