

# Yadunandana D Kulkarni

Software Engineer

Software Engineer with a Master's in Fullstack Development, experienced in building scalable backend systems using Go, FastAPI, and Spring Boot. Focused on designing resilient architectures, automating workflows, and delivering measurable business impact.

## Contacts

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## Skills

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### Frontend

React, TailwindCSS, ShadCN UI, Framer Motion, Magic UI, HTML, CSS, JavaScript

### Backend

Spring Boot, Next.js, ExpressJS, MongoDB, FastAPI, SQLAlchemy, Alembic, JWT, Stripe, Docker, PostgreSQL, MySQL, AWS S3, Azure AD, Typescript, Golang, Python, Java, SQL

### Other

Design Patterns, CI/CD, TDD

## Achievements

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### Contributed to OSS:

Contributed to the Neovim plugin **friendly-snippets**, addressing React and Java snippet issues.

<https://github.com/rafamadriz/friendly-snippets>

## Certifications

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- Fullstack Development
- Introduction to Model Context Protocol
- Model Context Protocol: Advanced Topics

## Experience

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### Betsol – Software Engineer Trainee

Jul 2025 - Dec 2025

- Built a modular backend for HR operations, streamlining employee data management and document workflows while improving maintainability and deployment efficiency.

FastAPI, Alembic, AWS S3, MySQL, TDD, OAuth2.0, Docker

- Developed an MCP server with Azure OAuth2.0 authentication to securely access internal employee data and automatically match candidates to job descriptions, enabling BU Heads to identify top talent efficiently.

Model Context Protocol, FastMCP, Docker, OAuth2.0

- Automated HR attendance report consolidation, reducing processing time from 1 hour to 6 seconds (600× faster) using a scalable, fault-tolerant processing pipeline.

Chain of Responsibility, Golang, TDD

### Vion Consulting Pte. Ltd. – Implementation Engineer

Nov 2022 - Oct 2024

- Developed an interactive chat interface powered by a CNN model for brain tumor MRI classification, enabling faster, AI-assisted diagnostic assessments.

Python, Tensorflow, Machine Learning (CNN)

- Built an IVR automation on Bright Pattern to handle Okta password resets, reducing manual IT support requests and improving efficiency.

Postman, IVR in Bright Pattern

## Education

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2023–2025    **MCA (Fullstack Development)** – Jain Deemed To Be University

2019–2022    **BCA** – The National College

## Projects

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### TheDrip.

Full-stack e-commerce platform with secure Stripe payments, JWT authentication, AWS S3, and REST APIs in Spring Boot.

React, ShadCN UI, Framer Motion, JWT, Spring Boot, AWS S3, Stripe, Vercel

- <https://github.com/ydkulks/TheDrip>,
- <https://github.com/ydkulks/TheDrip-Backend>