

# Anirudh Vijayaraghavan

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## Skills

**Languages & Databases:** Javascript, Java, Typescript, Python, PostgreSQL, Sequelize ORM, PlanetScale, Prisma, IBM DB2, MongoDB  
**Web:** React, Node.js, Express.js, jQuery, Postman, HTML5, CSS3, SASS, Next.js, Tailwind CSS  
**DevOps/CICD/Cloud:** AWS, DigitalOcean, Pulumi, Packer, Github Actions, Linux, Debian, Shell Scripts, GCP, Terraform, Docker, YAML  
**Other Software/Concepts:** Figma, ServiceNow, Design Sprint, RESTful APIs, Object-Oriented Design, OpenAI, Blender  
**Mainframes:** COBOL, JCL, REXX, CICS, VSAM, IBM DB2

## Certifications

**AWS Certified Solutions Architect – Associate (SAA-C03), AWS Certified Cloud Practitioner (CLF-C02)**

## Work Experience

### Senior Systems Engineer

August 2018 - May 2022

Infosys Ltd., Chennai, India

- Led a high-performing **AGILE** development team, consistently delivering high-quality code, **reducing maintenance costs by 14%**, through workflow automation, **modular design**, improved system efficiency (**memory management**).
- Integrated **Parallel Processing** using IBM **Mainframe and Distributed Job Scheduler**, achieving a 20% reduction in Time To Live (TTL) for critical jobs and data delivery time to downstream applications.
- Optimized database **SQL queries**, **resulting in a 30% reduction** in database response times and improved application responsiveness, using IBM DB2 RDBMS.
- Managed **Disaster Recovery (DR) activities and I.T Data audits**, resulting in a 35% decrease in recurring incidents and improved production stability, using Microsoft Office Suite, and ServiceNow.
- Achieved a 15% reduction in operational costs and increased team productivity by automating labor-intensive tasks using **Mainframes Technology stack (COBOL, JCL, REXX), and Changeman Version Control System**.
- **Developed and maintained documentation for software design**, architecture, and APIs, and maintenance, facilitating knowledge sharing and onboarding of new team members, using **PlantUML & Sharepoint**.
- Implemented **test-driven development (TDD)** practices, resulting in a 50% reduction in post-release defects and improved software reliability.
- Streamlined **CI/CD pipeline**, by analyzing critical bottlenecks, reducing deployment time by 20%, **using CHANGEMAN VCS and ServiceNow**.

## Projects

### AI Assisted Learning Platform – *Next.js, SQL, OpenAI, DigitalOcean, Typescript, Github, Stripe* | [Link](#)

Sep 2023 - Dec 2023

- Led the creation of a cutting-edge AI Assisted Learning Platform. Adopted an **N-tier architecture with MVC pattern**, ensuring clear separation of concerns for easy maintenance and robust security. Applied **SDLC principles for efficient project management**.
- Engineered a **secure and scalable backend**. Implemented **strong user authentication using NextAuth** and efficient **database management with PlanetScale (MySQL) and Prisma ORM**.
- Developed an AI-leveraged course generation system **utilizing RESTful APIs**. Integrated the **OpenAI API** to dynamically generate relevant courses and chapters based on user input. Incorporated the **YouTube API to fetch and display relevant videos** for each chapter.

### Canvas Assignment Submission Clone – *AWS, GCP, Github, Pulumi, Packer, Linux, Node, Postgres* | [Link](#)

Sep 2023 – Dec 2023

- Engineered a **secure, scalable infrastructure in AWS**. Implemented **VPC for network isolation, EC2 instances for compute resources, and RDS for robust database management**. Enhanced security with **IAM profiles** and ensured reliable DNS management through **Route53**. Configured **scaling through Load Balancers & Auto Scaling Groups**.
- Established **automated CI/CD pipelines using GitHub Actions**, facilitating seamless testing and deployment across **Linux and Debian** environments. Employed **Infrastructure as Code practices using Pulumi and Packer**, significantly improving development efficiency and reducing system downtimes.

### Tanager & Trackr – *Figma, Wireframes, Design Sprint* | [Trackr Tanager](#)

Feb 2023 - Apr 2023

- Implemented 7 industry standard **UX methodologies** including **Problem Statements, Empathy Maps, POV Statements, Hand sketches, Low Fidelity Wireframes, High Fidelity Prototyping, and Usability Testing**.
- Employed advanced prototyping features using **Figma** such as **components, variants, embedded videos, plugins, smart animations, modals**.

### Daycare model application – *Java, SwingUI, Object-Oriented Design, Factory Design Pattern, IntelliJ* | [Link](#)

Sep 2022 - Dec 2022

- Designed a Daycare center in Java 8, tracking the immunization records, using **Object Oriented Design** principles.
- Applied **Factory Design Pattern, Stream API** for efficient data manipulation, **Runnable Interfaces, Multi-threading, & Data Structures**.

## Education

### Master of Science, Software Engineering

Northeastern University, Boston, MA

Expected December 2024

**Data Structures & Algorithms, Object Oriented Design, Full Stack Web Dev., UI/UX design, Cloud Computing, Software Engineering**