Anirudh Vijayaraghavan

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Education

Master of Science, Software Engineering, Northeastern University, Boston, MA   **Dec 2024**

Data Structures & Algorithms, Object Oriented Design, Web Dev.(MERN), UI/UX, Cloud Computing, Operating Systems, Game Dev., SDLC

Bachelor of Technology, Electrical and Electronics Engineering, SRM University, Chennai, India   **May 2018**

Skills

Languages & Databases: Javascript, PHP, Python, Java, PostgreSQL, MySQL, Eloquent ORM, Redis, Sequelize ORM, IBM DB2
Web: Laravel, Node.js, Express.js, jQuery, React Vite, Spring Boot, Next.js, Tailwind CSS, Postman, Figma
DevOps/CICD/Cloud: AWS, DigitalOcean, GCP, Pulumi, Packer, Github Actions, Linux, Debian, BASH/Shell, Terraform, Docker, YAML

Certifications

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

Work Experience

Full Stack Web Developer Co-op, Neva Group Inc – *PHP, Laravel, JQuery, Apache, RESTful APIs, Frontend Dev.*   Jan 2024 – Jun 2024
Boston, MA

- Worked on **truulee.com (currently in pre-launch)**, a global B2B e-commerce web-application.
- **Deployed responsive, dynamic web forms** using **Laravel Blade templates**, **VueJS**, jQuery, and **Laravel Validation** features, ensuring robust input validation across devices, while adhering to mobile-first design principles.
- **Enhanced security** by integrating multi-factor authentication through OTP setups using PHPMailer and Infobip, leveraging Laravel's authentication system, **resulting in a 40% reduction in phishing attempts and spam alerts**.
- **Leveraged Stripe payment gateway** via **Laravel Cashier**, enabling secure and scalable online transactions.
- **Automated testing and error detection with Selenium and PHPUnit scripts,** reducing critical bugs and improving code quality**, cutting manual testing time by 20%. Created scripts to test Forms, Payment systems.**
- **Developed and maintained RESTful APIs and routes**, integrating backend services and frontend interfaces.
- **Performed backend and front-end performance optimization**, improving page **load times by 10%** and enhancing user engagement through custom caching mechanisms and optimized database queries.
- **Improved API performance** by optimizing **Laravel Eloquent relationships**, reducing database query time by 8%.

Senior Software Engineer, Infosys – Client: MetLife Inc.   Aug 2018 - May 2022

- 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, significantly enhancing application responsiveness, and **reducing DB DEADLOCK issues for over 10 applications**, **using IBM DB2 RDBMS.**
- Implemented **test-driven development (TDD)** practices, resulting in a 50% reduction in post-release defects.
- Achieved a 15% reduction in operational costs and increased team productivity by automating labor-intensive tasks using **Linux**, **Mainframes Technology stack (IBM DB2, CICS, COBOL, JCL, REXX), and Changeman Version Control System**.
- Facilitated **seamless integration between 22 different mainframe corporate applications and cloud services (Reconciliation, Data Warehouses, FTP scripts, Database repositories, PDF generation and Analytics for ETL).**

Projects

Blogger – *Laravel, PHP, ORM, Tailwind CSS, Livewire, AlpineJS, SQLite, Real-Time Comms, Git, Linux* | Github | Link   Mar 2025
- Architected a **RESTful blogging platform using Laravel, Livewire, MySQL, and SQLite (development), integrating middleware, policies,** to enforce secure Authorization. Real-time post search with Laravel Scout and Meilisearch, and **token authentication via Laravel Sanctum**.
- Designed and optimized backend services by developing **REST APIs**, employing **Laravel Broadcasting with Pusher for real-time communication,** and scheduling **email dispatch through job queues to reduce server load**. Hosted and deployed live with DreamHost.

Shorty – *Laravel, PHP, ORM, Tailwind CSS, Livewire, AlpineJS, MySQL, Bash, Linux, Docker, NGINX* | Github | Link   Mar 2025
- Developed a URL Shortening **platform, integrating middleware, policies,** to enforce secure Authorization. Real-time search with Laravel Scout and **Typesense**, and **token authentication via Laravel Sanctum**. Deployed live to an Ubuntu Server, with NGINX.
- Implemented **unique slug generation (base-62) and secure redirection policies via middleware** and Gates. Created **REST APIs** for **link creation and management, Admin panels, Cron Jobs / batch processing, Emails, Policies**, and Premium mode.

AI Assisted Learning Platform – *Next.js, Docker, OpenAI, DigitalOcean, Typescript, Github, Stripe* | Link | Github   Sep 2023 – Dec 2023
- Created an **AI Assisted Learning Platform using NextJS and Typescript**. Adopted a **3-tier architecture with MVC pattern**, and deployed to **DigitalOcean, with Github Actions CI/CD, and Docker**. Used 3rd party **APIs (OpenAI, Youtube, Unsplash), and ShadCN, Tailwind CSS.**
- Engineered a **secure and scalable backend**. Implemented **authentication using NextAuth** and DB management with PlanetScale (MySQL).

Cloud Native Web Application – *AWS, GCP, Github, Pulumi, Packer, Linux, Node, Postgres* | Github   Sep 2023 – Dec 2023
- Engineered a **secure, scalable infrastructure in AWS**. Implemented **VPC for network isolation**, **EC2 instances for computing**, and **RDS**. Enhanced security with **IAM profiles** and DNS managed through **Route53**. Configured **scaling with 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 AWS CDK, and automated AMI creation using Packer.**
- Implemented **AWS Lambda for serverless email dispatch**. Utilized **Sequelize ORM for efficient database operations with Postgres database**. **Utilized GCP Bucket for object (zip) file storage** & retrieval. Created **Shell scripts to autorun the backend API as a service.**
- Set up **extensive monitoring using Amazon CloudWatch, StatsD, and Metrics**. Configured **subnets, routing tables, and internet gates.**