

# Dr. Rustom Ali Ahmed



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## PROFESSIONAL SUMMARY

**Full Stack Software Architect & Senior Developer** with **19+ years of experience** designing and deploying **scalable, production-grade systems**. Expert in **programming, AI-assisted development, and full-stack engineering** using **MERN, Laravel, and Python**. Strong expertise in **cloud infrastructure, Linux-based server management, and high-performance architectures** using **Nginx, Apache, load balancing, and auto-scaling**. Proven track record of building **enterprise systems serving thousands of users**.

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## TECHNICAL SKILLS

### Frontend Development

- React.js, Next.js
- JavaScript (ES6+), TypeScript
- HTML5, CSS3, Tailwind, Bootstrap

### Backend Development

- Node.js, Express.js (MERN Stack)
- PHP (Laravel, CodeIgniter)
- Python (Django)
- Java, .NET (ASP.NET basics)

### Database & APIs

- MySQL, PostgreSQL, MongoDB
- REST API Development (Laravel, Node.js, Django)
- API Integration (Payment Gateway, Third-party APIs)

### Cloud & DevOps

- AWS, Azure, GCP
- Docker, Kubernetes

- Nginx, Apache
- CI/CD (GitHub Actions)

## Other Expertise

- Generative AI Integrations (LLM APIs, AI chat systems)
  - System Design & Architecture
  - Cyber Security & Scalable Systems
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## CORE EXPERTISE

- Expert in Programming & Software Development
  - AI-Assisted Development (Generative AI, coding tools)
  - Full Stack Development (MERN, Laravel, Django)
  - Cloud Infrastructure & Virtual Machines (AWS, Azure, GCP)
  - Linux Server Administration (Production environments)
  - Web Servers: Nginx, Apache (optimization & scaling)
  - Load Balancing & Auto Scaling Architectures
  - REST API Design & Distributed Systems
  - High-Performance System Architecture
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## PROFESSIONAL EXPERIENCE

### Director & Full Stack Software Architect

#### RWORLD COMPUTER SOLUTIONS (OPC) PRIVATE LIMITED


 Jul 2020 – Present

- Founded and scaled a software development company delivering web and mobile applications
- Designed and deployed full-stack applications using MERN, PHP, Python and **Laravel-based backend systems with RESTful APIs**
- Developed and integrated **secure APIs for authentication, payments, and third-party services**
- Built enterprise-level systems including:
  - Online Admission System
  - Online Proctored Examination Platform (5000+ users)
  - Learning Management System (LMS)
  - Student Information System (SIS)
- Delivered systems used by **5000+ active users across multiple platforms**
- **Architected and managed** multiple production deployments on cloud infrastructure
- Significantly improved system performance and scalability for high concurrent workloads

- Developed e-commerce platforms and REST APIs
  - Led system architecture, DevOps deployment, and client delivery
  - Architected and managed **Linux-based cloud infrastructure (Nginx, Apache)**
  - Implemented **load balancing and auto-scaling for high-traffic systems**
  - Optimized backend performance and server configurations for scalability
  - Leveraged **AI-assisted development tools (LLMs, code generation)** to improve development efficiency and code quality
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## Lead Technologist (Part-Time)

### ContexQ Pte Ltd


 Oct 2024 – Aug 2025

- Led product architecture and engineering execution
  - Designed scalable backend systems and APIs
  - Collaborated with cross-functional teams for digital product delivery
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## EARLY CAREER & ENGINEERING FOUNDATION

### Assistant Professor (Information Technology)

Sikkim Manipal Institute of Technology (SMIT)

 Oct 2005 – Jul 2025

- Taught and mentored students in **programming, data structures, and system design**
  - Designed and delivered courses in:
    - Programming (C, C++, Java, Python)
    - Data Structures & Algorithms
    - Web Technologies & Cloud Computing
  - Guided multiple **real-world software development projects**
  - Built strong foundation in **software engineering principles and problem solving**
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## LEADERSHIP & SYSTEM ARCHITECTURE EXPERIENCE

- **Head, IT Council (Sikkim Manipal Institute of Technology)**  
Led institutional IT strategy, cloud adoption, and digital transformation
- **Chairman, Software Development Teams**  
Architected and delivered large-scale systems:
  - Online Admission System
  - Examination System
  - Student Information System (SIS)
- Led cross-functional teams for **end-to-end system development and deployment**

- Managed **project planning, budgeting, and technical execution**
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## KEY PROJECTS

### Enterprise Systems

- Online Proctored Examination System (high-scale system during COVID)
- University Admission Portal (end-to-end automation)
- Learning Management System (LMS)
- Student Information System (Web + Mobile)

### Web & API Solutions

- E-commerce platform with payment integration
- World City REST API (open-source dataset service)
- Timesheet & workforce management system
- Lab reporting and analytics system

### Mobile & AI Systems

- Campus mobile app (academic + admin services)
  - AI-based rainfall prediction system (ongoing research project)
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## EDUCATION

- **Ph.D. in Computer Science & Engineering** – Tezpur University (2018), Research in AI-based image processing and predictive modelling.
  - **M.Tech. in Information Technology** – Tezpur University (2005)
  - **M.Sc. in Mathematics** – Tezpur University (2003)
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## ADDITIONAL STRENGTHS

- Strong problem-solving in Data Structures & Algorithms
  - Experience in large-scale system architecture
  - Expertise in cloud-native application development
  - Academic + industry blend (rare advantage)
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## ACHIEVEMENTS

- Dr. T.M.A. Pai Overall Excellence Award (2020)
  - National Awards for e-Governance – Finalist
  - Built 15+ large-scale production systems
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## **LANGUAGES**

English • Hindi • Assamese • Bengali

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## **GITHUB & PORTFOLIO**

Projects and code samples available upon request / GitHub (private repos available for review)

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