Ravi Kishan

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Performance-driven Full Stack Developer & Computer Science enthusiast skilled in building scalable, secure, high-performance solutions across web, mobile, and cloud platforms. Proficient in cloud-native development, microservices, and DevOps, with expertise in designing robust infrastructures optimized for seamless scalability and automation. Passionate about system optimization, CI/CD, and software reliability.

EDUCATION

MCA - VIT, VELLORE
Present | Vellore, TN, India
Sem. GPA: 9.1

BCA - PIMRG, GWALIOR
June 2024 | Gwalior, MP, India
Cum. GPA: 9.6

HSC - BSEB, PATNA
May 21 | Patna, Bihar, India
Percentage: 74%

SSC - BSEB, PATNA
May 19 | Patna, Bihar, India
Percentage: 83.2%

COURSEWORK

Computer Programming, Computer Network, DBMS, Operating System, Machine Learning, Software Engineering, Data Structures and Algorithms, Artificial Intelligence, Cloud Computing, OOPS, Cyber Security, Software Testing, Web Development

SKILLS

PROGRAMMING
Programming Languages: JavaScript, TypeScript, Java, Python, Go, Rust, C++, C, PHP
Frontend Technologies: React.js, Next.js, Tailwind CSS, Astro, SASS/SCSS, PostCSS, Redux, Redux Saga, Redux Toolkit, Redux Thunk, JAM, Shadcn UI, Jest, Cypress, Playwright, WebPack
Backend Frameworks: Node.js (Express, NestJS), Django, Flask, FastAPI, Laravel, Spring Boot, GraphQL, gRPC, REST API, OAuth 2.0, JWT
Databases: PostgreSQL, MySQL, MongoDB, Firebase, Redis, Neo4j, ElasticSearch, SupaBase
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, DynamoDB, ELB, AKS, IAM), Azure, GCP, Docker, Kubernetes, Terraform, CI/CD (GitHub Actions, Jenkins), CDN, Linux, Nginx
Other Tools: Kafka, RabbitMQ, Selenium, Mocha, Chai, WebAssembly, Git, GitHub, Flutter, React Native, ELK Stack, Prometheus, Grafana, Markdown

EXPERIENCE

ARROWHEAD CAPITAL MANAGEMENT LLP | QUANT DEVELOPER INTERN
Jun 2025 – Nov 2025 | Mumbai / India

- Developed and optimized **quantitative trading strategies** using **Python**, focusing on statistical analysis, factor modeling, and market data interpretation.
- Implemented **backtesting frameworks** to evaluate trading strategies on historical data, improving strategy reliability and reducing drawdowns.
- Worked on **time-series analysis** and feature engineering using financial indicators such as moving averages, volatility, momentum, and volume-based signals.
- Assisted in building **data pipelines** for cleaning, normalizing, and storing large-scale market data using **Pandas, NumPy, and SQL**.
- Collaborated with senior quants to analyze **risk metrics** including Sharpe ratio, max drawdown, and volatility to improve portfolio performance.
- Automated research workflows and reporting processes, reducing manual analysis time by **30%**.
- Gained hands-on exposure to **financial markets, algorithmic trading concepts, and quantitative research methodologies**.

CHITI INFOTECH PVT. LTD. | FULL STACK DEVELOPER INTERN
Jan 2023 – Sep 2023 | Gwalior, MP

- Migrated a legacy **PHP monolithic application** to a modern **React-based SPA**, improving performance by **40%**.
- Built and deployed **SPLANGO**, a customer management system to streamline client onboarding and resource tracking.
- Implemented **PWA features** and optimized frontend performance using **React best practices**, reducing API response time by **25%**.
- Collaborated with cross-functional teams using **Git/GitHub**, accelerating feature delivery by **30%**.

FREELANCE FULL STACK DEVELOPER | UPWORK (REMOTE) & OFFLINE CLIENTS
Jan 2022 – Present | Remote & Onsite

- Delivered **15+ full-stack projects** including SaaS platforms, enterprise apps, and e-commerce solutions.
- Built scalable **MERN stack applications** with optimized APIs, increasing client engagement by **35%**.
- Implemented **CI/CD pipelines** using **Docker, GitHub Actions, and AWS**, cutting deployment time by **50%**.
- Designed secure systems with **JWT, OAuth, RBAC** and optimized databases using **MongoDB, PostgreSQL, and MySQL**.

PROJECTS

RELAX.JS | A Lightweight and Modern Frontend Library
Jan 2025 | JavaScript, TypeScript, Vitest

- Designed and developed **Relax.js**, a virtual DOM-based frontend library to optimize UI rendering and state management.
- Achieved **efficient DOM updates**, leading to **a 35% performance boost** in dynamic web applications.
- Published as an open-source **NPM package**, gaining **1000+ downloads within the first month**.
- **GitHub:** github.com/Ravikisha/Relax.js | **Live:** npmjs.com/package/relaxcore

MICROFRONTEND BLOG | Scalable Blogging Platform Using Microfrontends
Dec 2024 | React, Module Federation, Redux, Clerk, Firebase, TailwindCSS

- Developed a **microfrontend-based blogging platform**, enabling independent feature deployments and modular architecture.
- Integrated **Firebase** for seamless database management, reducing API response times by **25%**.
- Used **Clerk** for secure user authentication, improving login efficiency by **40%**.
- **GitHub:** github.com/Ravikisha/Microfrontend-Blog

RELAXLANG | A Simple Interpreted Programming Language
Jan 2024 | Java, C

- Built **RelaxLang**, an interpreted programming language inspired by **Lox** from *Crafting Interpreters*.
- Implemented in both **Java and C**, supporting lexical analysis, parsing, and execution of scripts.
- Designed a **custom runtime environment**, improving script execution efficiency by **20%**.
- **GitHub:** github.com/ravikisha/relaxlang | **Live:** https://hub.docker.com/repository/docker/ravikishan63392/relaxlang

PATENTS & PUBLICATIONS

A MULTILINGUAL CHATBOT FOR INDIAN EPIC USING GENERATIVE AI AND LARGE LANGUAGE MODEL | Indian Patent Application (Published, Not Granted)
Application No: 202541117128 | Filed: 26/11/2025 | Published: 19/12/2025

- Developed **GitaSaar**, a multilingual chatbot leveraging **Large Language Models (LLMs)** and **Retrieval-Augmented Generation (RAG)** to deliver contextual answers from Indian epics.
- Enabled support for multiple Indian languages including **Hindi, Tamil, Bengali**, increasing accessibility for diverse users.
- Evaluated chatbot performance using **BLEU, BERTScore, and GPTScore**, achieving high contextual alignment with GPT-based models.

CERTIFICATIONS & TRAINING

- Achieved **Microsoft Certified: Azure Fundamentals (AZ-900)**, demonstrating expertise in **cloud computing, AI services, and Azure architecture**.
- Earned the **IBM Full-Stack Developer** Certification on Coursera, completing **12 courses** covering:
    - **Cloud Computing** and deployment strategies
    - **Front-End Development** with **React, Redux, and TypeScript**
    - **Back-End Development** using **Flask, Django, Node.js, and MongoDB**
    - **Microservices Architecture** and **DevOps** best practices
- Completed the **Meta Full-Stack Developer** Certification on Coursera, covering:
    - **HTML, CSS, JavaScript, and TypeScript** for scalable web applications
    - **React and Single Page Applications (SPA)** for interactive UIs
    - **Backend Development** using **Python, Express.js, and Node.js**
    - **Continuous Integration/Continuous Deployment (CI/CD) and DevOps**
- Certified in **React Bootcamp** (Udemy), mastering **React, Redux, TypeScript, and advanced component design patterns**.
- Earned the **DevOps Certification** (Udemy), covering:
    - **Jenkins, Ansible, Docker, Kubernetes, Terraform, Gradle, and Maven**
    - **Infrastructure as Code (IaC)** and cloud automation techniques
- Passed multiple **HackerRank Certification Tests**, demonstrating technical proficiency in:
    - **JavaScript, Python, SQL, Node.js, and React** (Basic & Intermediate Levels)
    - **Problem-Solving and Algorithmic Thinking**
- **Full-Stack Development Training** at **Praedico Global Research Pvt. Ltd.** on MERN stack and build Student Management System and personal **Portfolio** website. (Dec 1, 2023 – Dec 21, 2023).

ACHIEVEMENTS & AWARDS

- Participated in multiple **Open-Source Contribution Events and Hackathons**, demonstrating proficiency in **collaborative development, version control (Git/GitHub), and Agile methodologies**.
- Successfully completed the **Microsoft Learn Student Ambassador (MLSA)** program, gaining expertise in **Azure Cloud, AI, Full-Stack Development, and community leadership**.
- Solved **1,200+ problems** on **LeetCode** and **GeeksforGeeks**, demonstrating expertise in **data structures, algorithms, problem-solving**, and **code optimization**, aligning with industry standards.