SHREYAS RAVIPRAKASH

Software Developer

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Linkedin | GitHub

EDUCATION

University College Dublin   Dublin, Ireland
Master's Information Systems   Sep 2022 - Aug 2023
GPA: 3.45

The National Institute of Engineering   Mysore, India
Bachelor of Engineering Computer/Information Science   Aug 2016 - Aug 2020
CGPA: 8.5

EXPERIENCE

IBM Software | Full-stack engineer API-Connect   Dublin, Ireland | Jan 2025 - Present

- **Agentic AI Development**: Engineered VS Code plugin integrations with IBM watsonX Orchestrate, implementing advanced agentic AI workflows and generative AI capabilities for enhanced developer productivity within API-Connect.
- **MCP Server Architecture**: Built scalable Model Context Protocol servers with custom tool and resource registrations, extending AI system capabilities through robust microservices architecture.
- **Performance Optimization**: Reduced LLM's response latency from over 10 minutes to under 2 minutes by implementing input payload fragmentation and asynchronous parallel processing.
- **Full-Stack Engineering**: Delivered comprehensive product features using NodeJS, React, and Python, orchestrating seamless integration between AI-powered backends and responsive frontend interfaces.
- **DevOps Automation**: Implemented CI/CD pipelines with Jenkins, Docker containerization, and Kubernetes manifests, ensuring reliable deployment workflows for AI-integrated applications.
- **Hackathon Projects**: Developed two watsonX-powered solutions - drone-assisted roadside vehicle assistance platform and AI agent framework for autonomous developer team management across deployment, testing, and SRE operations.

Irish Water | Graduate Solutions architect   Dublin, Ireland | Sep 2023 - Jan 2025

- **Design Review and Ratification**: Collaborate with the Design Agenda team to review **design submissions**. Make critical decisions on ratifying designs based on technical feasibility and alignment with business objectives.
- **Architectural Guidance**: Provide guidance on best practices and architectural patterns to development teams, fostering the creation of scale able and maintainable systems.
- **Documentation and Standards**: Develop and maintain comprehensive architectural documentation

Prestin Technology | Software developer(Part-Time)   Dublin, Ireland | Jan 2023 - Aug 2023

- **Fintech Micro services**: Orchestrated scale-able microservices architecture using Spring Boot in Java, navigating complex fin-tech requirements to ensure robustness and efficiency.
- **Testing**: Implemented unit tests for core functions and end-to-end integration tests using Playwright to ensure application reliability and seamless user experience.
- **Asynchronous Communication**: Integrated messaging queues to foster seamless communication among microservices, enhancing system resilience through asynchronous interactions.
- **Innovative Problem-Solving**: Demonstrated adeptness in troubleshooting intricate technical challenges, ensuring product stability, and refining problem-solving acumen.

PayU-Wibmo | Software Developer 1   Bengaluru, India | Aug 2020 - Sep 2022

- **Fraud Detection System**: Engineered the 'Trident' fraud risk engine using Spring framework and servlets, effectively safeguarding against fraud through advanced detection techniques.
- **Cloud-Powered Scalability**: Orchestrated AWS services to establish a robust and scalable architecture, ensuring reliability in processing high-demand scenarios.
- **Containerization**: Leveraged Docker to enhance deployment consistency and streamline development, contributing to efficient and reliable software releases.

- **Full-Stack Collaboration**: Primary engineer for an Auth-app system, integrating Spring Boot and Google FCM for push notifications, and collaborated with cross-functional teams for timely contributions.

Surabhi Software | Web-developer intern   Mysore, India | Jan 2019 - Jul 2019

Worked as a webdeveloper intern at Surabhi Software, where I was responsible for the frontend design for The Indian Society of Heating, Refrigerating, and Air Conditioning Engineers (ISHRAE). Stack used: HTML, CSS, JavaScript (React lib).

SKILLS

Programming Languages:	Javascript, CSS, Java, Python, HTML5
Libraries/Frameworks:	Express, Node, Spring boot, ReactJs
Tools / Platforms:	Micro-services, rest api, git version control, Openshift, System design, Kubernetes, Docker, CICD, VS Code Extensions, MCP (Model Context Protocol), GenAI, Agentic AI, Messaging queues, Caching
Databases:	MySQL, MongoDB, S3 object storage, RDS/Aurora (AWS), PostgreSQL

PROJECTS / OPEN-SOURCE

Edemenu | Link   *TypeScript, JavaScript, HTML, CSS, Docker, RDS/S3, Postgres, RBA*

As a solo IT team for a **start-up**, I built a full-stack, AI-driven web platform from the ground up, enabling businesses across industries (F&B, Real Estate, Retail, etc.) to effortlessly create dynamic online menus or storefronts through an intuitive drag-and-drop interface.
Integrated generative AI to auto-generate shop listings, descriptions, and category-specific content.
Built customer-facing and admin portals, real-time analytics dashboard (popular items, trends, sales), and smart targeting tools to help shop owners market to high-interest customers.

LogIn | Link   *React, Spring, TOTP, Kubernetes, Docker, JWT, OAuth2.0, GCP*

TrojAuth is a secure authentication app with React frontend and Spring Boot backend, supporting JWT and OAuth 2.0 (Google & GitHub) for account sync. Features multi-factor authentication (MFA) with email OTP and TOTP, containerized with Docker and deployable on Kubernetes with Skaffold.

EchoTrojan | Link   *Spring, WebSocket, MongoDB, JPA, Docker, Kubernetes*

EchoTrojan is a real-time chat application leveraging WebSockets for instant messaging, allowing users to create rooms or chat one-on-one. Its designed for high concurrency with low latency, featuring user authentication, room management, and message persistence, showcasing expertise in scalable, real-time communication systems.

CERTIFICATIONS

- JavaScript Essential Training - **linkedIn**
- React.js Essential Training - **linkedIn**
- IBM Cloud Essentials - **IBM**
- Python For Data Science - **IBM**
- Problem Solving (Intermediate) Certificate - **HackerRank**
- Rest API (Intermediate) Certificate - **HackerRank**