

# Ujjwal

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## SUMMARY

Software Engineer at FICO, experienced in backend development, microservices modernization, DevOps, automations & AI-driven solutions. Skilled in designing scalable systems, streamlining deployment pipelines, and leading innovation initiatives to improve reliability and developer efficiency.

## EDUCATION

<b>M.Tech. in Artificial Intelligence &amp; Machine Learning</b>	BITS Pilani • 2025 (Ongoing)
<b>Bachelor of Engineering in Computer Science</b> • CGPA: 9.87	Chitkara University • 2020 – 2024
<b>Foundational Level in Programming and Data Science</b>	IIT Madras • 2021

## Experience

<b>Software Engineering-Engineer I</b> FICO, Bangalore   Full Time	<b>June 2025- Present</b>
Contributed to platform modernization, automations, and security optimization across multiple modules.	
<ul style="list-style-type: none"><li>• Worked on Blue-Green Deployment Strategy using Argo Rollouts and Flagger for zero-downtime StatefulSet releases.</li><li>• Worked on gRPC modernization by creating ServerInterceptors for exception handling, IAM, and HTTP-to-gRPC migration.</li><li>• Enhanced security compliance via automated vulnerability scans (SonarQube, Checkmarx, BlackDuck, AquaSec).</li><li>• Performance benchmarking &amp; thorough analysis.</li><li>• Resolved Jenkins pipeline issues, improved regression coverage, and built automation scripts to strengthen CI/CD reliability.</li><li>• Proposed and prototyped 8 innovation ideas during Innovation Weeks, mentoring new engineers on automation workflows.</li><li>• Tech Stack: Java, Python, GoLang, Bash, Spring, Docker, Kubernetes, Jenkins, AWS, gRPC, SonarQube, LangChain, MCP, Prometheus, Grafana.</li></ul>	
<b>Software Engineering-Associate</b> FICO, Bangalore   Full Time	<b>June 2024 - June 2025</b>
<b>Software Engineering – Intern</b> FICO, Bangalore   Internship	<b>May 2023 - June 2024</b>
<b>Data Structure Scholar</b> TwoWaits   Internship	<b>Nov 2021 - Dec 2021</b>
<ul style="list-style-type: none"><li>• Mentored peers in core data structures and algorithms.</li></ul>	

## SKILLS

- Programming:** Java, Python, Go, C++, JavaScript, TypeScript
- Frameworks:** Spring Boot, Node.js, ReactJS, Express.js, gRPC
- DevOps & Cloud:** Docker, Kubernetes, Jenkins, AWS, Azure, SonarQube
- Security Tools:** Blackduck, Checkmarx, Aquasec
- Databases:** MySQL, PostgreSQL, MongoDB
- AI & Automation:** LangChain, AI Agents, Model Context Protocol (MCP)
- Tools:** Grafana, Prometheus, Splunk, Git, Figma, OpenCV, Android Studio
- Soft Skills:** Teamwork, Mentoring, Problem Solving, Innovation, Time Management

## PROJECTS

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### **Tempo MCP Server** – TypeScript, Grafana Tempo, MCP, Claude



- Built a Model Context Protocol (MCP) server for distributed tracing and observability with advanced trace query and filtering features.
- Enabled advanced trace & spans query and filtering support for scalable microservice monitoring.

### **BloodLink** – MERN Stack (MongoDB, Express, React, Node.js)



- Designed and developed a full-stack platform connecting blood donors and banks with real-time request and scheduling management.
- Implemented secure authentication workflows and RESTful APIs using Node.js, Express, and MongoDB.

### **Traximo** – Hackathon winning project (1st Place, April 2022)



- Built interactive #MoveToPlay webcam games controlled by hand gestures using computer vision.
- Deployed on Azure, encouraging physical activity through gamified play.

### **Webfolio** – React, Three.js, Framer Motion



- Developed an interactive portfolio site using React, Three.js, and Framer Motion for 3D animations and smooth UI transitions.

### **Kawach** – Android, Java

- Created a QR-based authentication system to restrict complete device access including all device functionalities, internet, camera etc. until revalidated.
- Designed secure server–mobile communication and audit logging.

## ACCOMPLISHMENTS

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### • **FICO Spot Awards (5x, 2023–2025):**

Recognized by leadership for excellence in innovation, automation, mentorship, and CI/CD optimization. Key contributions included SonarQube migration to AWS, Jenkins improvements, DMP feature delivery, and process documentation.

### • **Patent Filed (Nov 2022):**

Auto Cut Gas Fired Geyser with Alarm (Application No. 202211065867).

### • **Winner – The Great India Hackathon (By ReSkill & Microsoft Azure), Chitkara University (Apr 2022):**

Developed *Traximo*, a gesture-controlled gaming platform promoting physical activity.

### • **Smart India Hackathon Nominee (Mar 2022):**

Proposed sustainable waste management app with gamified reward system.

### • **Community Recognition (2022):**

Part of GitHub Graduation 2022, celebrating global open-source student developers.