

Kartik Kurupaswamy

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Education

Indian Institute of Technology - Guwahati <i>Master of Science in Mathematics and Computing</i>	Jul 2021 - May 2023 CGPA 8.3
The Maharaja Sayajirao University of Baroda - Vadodara <i>Bachelor of Science (Hons.) in Mathematics</i>	Aug 2018 - May 2021 CGPA 8.1

Skills

Languages Python, C, C++, PHP, Golang*, Java*	Cloud AWS, Azure
Databases MySQL, PostgreSQL, Oracle*, Firebase	OS Debian, Ubuntu, CentOS, Windows
	* Elementary proficiency

Experience

Tessell India Private Limited <i>Member of Technical Staff - 2</i>	Jul 2024 – Present
<ul style="list-style-type: none">– Implemented private communication between Control Plane and Data Plane within both AWS and Azure environments by collaborating on a two-person team, making it a critical feature now adopted by nearly half of our clients.– Implemented an Open Policy Agent (OPA) system for centralizing and streamlining policy validations by consolidating checks into a single location, improving consistency and reducing redundancy across services.– Incorporated Azure Monitor Agent for real-time database log streaming by adding support for seamless log transmission and monitoring.	
Tessell India Private Limited <i>Member of Technical Staff - 1</i>	Jul 2023 – Jul 2024
<ul style="list-style-type: none">– Implemented MySQL Enterprise Edition support for greater flexibility by enabling enterprise customers to use custom binaries, expanding Tessell's enterprise capabilities for customer-specific environments.– Increased recovery speed by 60% through designing and implementing the Point-in-Time Recovery (PITR) feature for MySQL, utilizing relay-based recovery.– Reduced log volume by 40% by developing and implementing a buffered logger in Python that emits debug-level logs conditionally, resulting in significant cost savings.	

Projects

Student's Hostel Portal <i>Prof. Ashok Singh Sairam, Dept. of Mathematics, IIT Guwahati, Group Size - 2</i>	Aug 2022 - Nov 2022 GitHub Link
<ul style="list-style-type: none">– Developed a centralized portal for the Hostel Affairs board to efficiently manage room allocations, track occupancy, and maintain real-time availability of hostel rooms.– Integrated a complaint management system within the portal, allowing students to easily register room-related issues, and providing admins with streamlined resolution tracking.– Tech Stack: MySQL, PHP, HTML, CSS, JavaScript	
Scheduling Assistant- IITG <i>Group Size - 3</i>	Jul 2022 - Sept 2022 GitHub Link
<ul style="list-style-type: none">– Built a scheduling assistant that generates personalized lecture timetables based on the IITG slot system, offering users a seamless way to manage their academic schedules.– Designed and hosted a backend database, connecting it to the application through internal API calls to enable real-time data retrieval and updates.– Developed an integrated attendance tracking system, ensuring accurate records of lecture participation and providing a comprehensive view of attendance data.– Tech Stack: MySQL, PHP, HTML, CSS, React.js	