

SUJENDRA JAYANT GHARAT

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EDUCATION

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| Northeastern University, Boston, MA | May 2025 |
| Master of Science in Information System | GPA : 3.6/4.0 |
| Relevant Courses: Application Engineering Development with Java, Network Structures & Cloud Computing, Data Management and Database Design, Agile Software Development | |
| University of Mumbai, Mumbai, India | May 2018 |
| Bachelor of Engineering, Electronics Engineering | |

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, Bash
DevOps Tools: Kubernetes, Docker, Terraform, Git, GitLab, GCP, AWS, Packer, Github Actions, CI/CD, Mosquitto, MQTT
Frameworks & Databases: Node.js, Flask, React.js, Angular, Express JS, SQL, PostgreSQL MongoDB

EXPERIENCE

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| Graduate Research Assistant – AI-CARING | Feb 2024 – Present |
| Northeastern University – Khoury College of Computer Sciences | Boston, MA |
| <ul style="list-style-type: none">Designed and implemented an ambient reminder system for individuals with Mild Cognitive Impairment (MCI)Constructed a full-stack smart reminder application using React, Node.js, and JavaScript, translating real-time user data and state of the house into actionable reminders, incorporating Redux for state management, Ant Design for UI componentsIntegrated advanced LLMs like OpenAI’s GPT series into AI chatbots, using dynamic prompt templates and decomposition strategies (few-shot and zero-shot prompting) to generate JSON outputs with required sensors and activities for remindersEngineered a real-time data processing system using Python, Mosquitto, and MQTT to integrate house sensor data and user activity data, managing a network of 120 sensors and processing data at an average rate of up to 3,000 entries per second | |

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| Senior Software Engineer | Feb 2022 – Aug 2023 |
| Capgemini | Mumbai, Maharashtra |
| <ul style="list-style-type: none">Orchestrated RESTful API calls for Multi-Modality AI using Python and Flask, achieving 40% improvement in response timesMaintained 99.9% uptime, boosted scalability, and reduced resource costs by deploying applications on Kubernetes clusters with Agile methodologiesLeveraged Docker for CI/CD, enhancing server deployment efficiency by 30% and reducing build times by 25% on serversAuthored automation scripts using Batch and Bash, utilized by 50+ team members, reducing support dependencies by 40% | |

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| Software Engineer | Aug 2018 – Feb 2022 |
| LTIMindtree | Mumbai, Maharashtra |
| <ul style="list-style-type: none">Led integration of 30+ third-party RESTful and SOA APIs in Node.js, collaborating with cross-functional teams and vendorsDeveloped an interactive data visualization feature with Chart.js, Highcharts, D3.js in Angular, allowing users to monitor electricity consumption across various time frames and manage usage effectivelyEnhanced REST API performance by leveraging advanced concurrency and asynchronous patterns in JavaScript/TypeScript, and implementing MongoDB caching in Node.js, resulting in a 15% boost in response times and a 30% reduction in API callsOptimized application performance and scalability by using Node.js cluster module to distribute incoming requests across multiple cores, achieving a 40% efficiency increaseImplemented graceful shutdowns and process monitoring in Node.js, reducing recovery time from errors by 50%, preventing resource leakage by 20%, and maintaining uninterrupted application operation with 99.9% uptime | |

ACADEMIC PROJECTS

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| Cloud Native Web App | Jan 2024 – Apr 2024 |
| <ul style="list-style-type: none">Provisioned Packer and Terraform to provision pre-configured machine instances, resulting in a 75% reduction in configuration time and facilitating swift deployment of infrastructure changesBuilt serverless user verification system with Cloud Function for email verification and tracking in Cloud SQLDeployed an autoscaling load balancer with a 99.9% availability SLA, ensuring reliable and efficient distribution of traffic to the web application instances | |
| Moving and Storage Rental Services | Sep 2023 – Dec 2023 |
| <ul style="list-style-type: none">Introduced a unique reward system to balance supply and demand by incentivizing customers to drop off trucks or trailers at high-demand locations, solving a problem faced by UHAULUtilized Flask’s Server-Side Rendering (SSR) to enable efficient CRUD operations on the MS SQL database | |