

EXPERIENCE

Open Source with SLU (St Louis, MO, USA)

(January 2026 – Present)

Tech Lead, GradEval360 Project

- **Architected a greenfield Graduate Evaluation System** from the ground up using **React and Node.js**, translating complex university policy into a modular, role-based digital workflow.
- **Designed a secure data schema in PostgreSQL** to manage sensitive academic evaluations, implementing **Okta-based OIDC authentication** to ensure 100% compliance with FERPA-aligned security standards.
- **Reduced initial development overhead by 35%** by establishing a standardized component library with **Tailwind CSS**, enabling the team to build 10+ core functional modules within the first sprint cycle.
- Led weekly client demos with university stakeholders to refine UX requirements, managing a backlog of **50+ Jira tickets** and maintaining a **95% sprint completion rate**.

Open Source with SLU (St Louis, MO, USA)

(August 2025 – December 2025)

Tech Lead, STL Data API Project

- Engineered the foundational architecture for a regional Open Data API, utilizing **Microservices** to aggregate disparate public transit and infrastructure datasets into a unified **RESTful gateway**.
- **Implemented a high-concurrency ingestion engine** using **Kafka and Node.js**, designed to process over **10,000+ simulated data points per second** with sub-50ms internal latency.
- Standardized API documentation using **Swagger/OpenAPI**, facilitating seamless integration for future frontend consumers and reducing integration friction for the 4-person development team.
- **Established a 100% automated CI/CD pipeline** via **GitHub Actions**, integrating automated linting and unit testing to ensure zero-regression during the initial build phase.

Open Source with SLU (St Louis, MO, USA)

(May 2025 – June 2025)

Full Stack Developer, Mouser Project

- Integrated Rerum, a feature for storing scientist's annotations related to experiments, enabling efficient capture and management of textual insights.

Clarivate (Bangalore, India)

(August 2021 – July 2024)

Full Stack Developer

- **Optimized database performance** by migrating complex business logic from the backend to **Stored Procedures (T-SQL)**, reducing query execution time from **4 minutes to under 15 seconds** for high-volume data reports.
- Architected and maintained enterprise web applications using **ASP.NET Core and C#**, consistently maintaining 99.9% system uptime for global legal and IP clients.
- Reduced deployment cycles by 30% by re-engineering **Azure DevOps CI/CD pipelines**, automating unit testing via **MS Test** and reducing manual intervention.
- **Collaborated in an Agile environment** to deliver 20+ major feature releases, mentoring a team of 5 junior developers and ensuring 100% adherence to code quality standards.

EDUCATION

- MS in Computer Science (August 2024 – May 2026)
Saint Louis University, Saint Louis, MO, USA | CGPA: 3.84 for 4
- Bachelor of Technology in Electronics and Communication Engineering (July 2017 - June 2021)
Manipal Institute of Technology, Manipal, Karnataka, India | CGPA: 8.44 for 10

TECHNICAL SKILLS

- Programming Languages: C, C++, Python (NumPy, Pandas, Scikit-learn), Java, JavaScript, TypeScript, C#, SQL
- Web & Frontend: React, Angular, jQuery, Ajax, HTML, CSS, Tailwind CSS, Vite 7
- Backend & Frameworks: Node.js, Express, Flask, ASP.NET, MVC, Entity Framework, Linq, Socket.io, OpenAI API
- Architecture & APIs: Microservices, CQRS, Kafka, RESTful APIs, Swagger
- Cloud, DevOps & Security: Okta, Docker, GitHub Actions (CI), Azure DevOps CI/CD, Postman, AWS S3, Supabase, Vercel, Render
- Databases: PostgreSQL, MySQL, Stored Procedures, PIVOT
- Testing & Tools: MS Test, Unit Testing, Git, Jira, Agile/Scrum

PROJECTS

IPL Data Analysis: Leveraged **PySpark** and **Databricks** on **AWS S3** datasets to predict match outcomes with **78% accuracy** using distributed data processing.

CampusBytes | Full Stack & GenAI Developer

- Architected a real-time social portal for **200+ users** using **React (Vite 7)** and **Node.js**, featuring **GenAI-powered** content generation via OpenAI API to increase user engagement by 25%.
- Optimized data synchronization using **Socket.io**, achieving sub-100ms latency for live post broadcasting, and integrated **Supabase (PostgreSQL)** for secure, domain-restricted authentication.
- Engineered a responsive "Windows Desktop" UI with Tailwind CSS v4, resulting in a **100/100 Lighthouse performance** score on Vercel deployments.

Cloud-based Storage Account | DevOps & Cloud Engineer

- Developed a **Docker-based** local emulation of **Azure Blob Storage**, improving local development data retrieval efficiency by **40%** and reducing cloud egress costs during testing.
- Automated container orchestration to simulate high-availability storage environments, streamlining the transition from local development to Azure production.

Computer-Aided Heart Sound Detection | ML & Health-Tech

- Developed a predictive health model using **Python and Signal Processing** to analyze heart sound frequency and intensity, achieving **85%+ accuracy** in identifying anomalies.
- Implemented feature extraction algorithms to forecast cardiac health trends, bridging the gap between raw biometric data and actionable medical insights.

ACTIVITIES

- Board Member of MIT Sports Club, MIT Cricket League, and MIT Basketball League of MIT Manipal.
- Organizer for HFS (Hospitality and Food Stalls) during Revels' 19 in College Fest.
- Volunteer for the sports category during Revels' 18 in College Fest.
- A member of the Clarivate's Bangalore Social Committee, which organizes events.

MERIT CERTIFICATE

Received an Award from the Associate Director and Senior Manager for the work I have delivered at Clarivate in 2022.