

PREM KIRAN POLEPALLI

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SUMMARY

A highly motivated and results-oriented Tech Lead and Full Stack Developer with extensive experience in designing and implementing scalable web applications and data pipelines. Proven ability to lead development teams, architect robust systems using a variety of technologies, and ensure high code quality through best practices. Adept at full-stack development, cloud technologies, and data analysis, with a strong track record of delivering efficient and reliable software solutions.

EDUCATION

Saint Louis University | Saint Louis, MO, USA August 2024 – May 2026
MS | Computer Science | CGPA 3.84 of 4

Manipal Institute of Technology | Manipal, Karnataka, India July 2017 - June 2021
Bachelor of Technology | Electronics and Communication Engineering | CGPA 8.44 of 10

EXPERIENCE

Tech Lead, STL Data API Project | OPEN SOURCE WITH SLU | St Louis, MO, USA August 2025 – Present

- Led a team of four developers in web application development, designing and implementing a centralized RESTful API and portal using Python, Flask, microservices, and Swagger, applying software design patterns and core engineering fundamentals to deliver a scalable public data platform.
- Architected scalable data ingestion, processing, and storage pipelines using CQRS, Kafka, Docker, PostgreSQL, and SQL, supporting structured and semi-structured data formats (including XML) while ensuring system reliability and performance.
- Oversaw infrastructure management and troubleshooting across containerized services, managing GitHub-based workflows, code reviews, and agile sprints with strong time management to ensure consistent delivery and high code quality.

Full Stack Developer, Mouser Project | OPEN SOURCE WITH SLU | St Louis, MO, USA May 2025 – June 2025

- Integrated Rerum annotation storage into a Python-based Windows application, enabling efficient capture and management of scientific experiment insights using clean design patterns.
- Ensured reliability and maintainability through structured data handling and effective troubleshooting, supporting long-term usability of the research application.

Full Stack Developer | CLARIVATE | Bangalore, India August 2021 – July 2024

- Developed and maintained ASP.NET MVC-based web applications using C#, .NET Framework, Web APIs, Angular, TypeScript, JavaScript, HTML, and CSS, supporting secure and scalable enterprise workflows.
- Translated business requirements into technical solutions by collaborating with analysts and implementing backend logic with Entity Framework, LINQ, and MySQL, following clean design patterns.
- Ensured code quality and security through unit testing with MSTest, code reviews, debugging, and version control using Git and Jira.
- Automated builds and deployments by managing CI/CD pipelines in Azure DevOps, improving release reliability and development efficiency.
- Mentored junior developers and QA teams, providing technical guidance, troubleshooting support, and onboarding assistance.

Software Intern | AGNEYAS LABS | Bangalore, India March 2021 - April 2021

- Training in real-world operations of the Air quality website as well as a fundamental comprehension of the software used to show real-time data.

Business Analytics Intern | VERZEO | Bangalore, India April 2020 - May 2020

- Predicting the cost of used cars from the given data: To predict and understand the cost of used cars. The data is collected from various sources and distributed across various locations in India. The analysis was done on Jupyter Notebook platform using Python.

Computer Networks Intern | BHARAT SANCHAR NIGAM LIMITED | Anantapur, India June 2019 - July 2019

- Industrial training in the operation of wireless connections, the Internet, and broadband, as well as a fundamental understanding of the software needed to monitor the efficient operation of services.

PROJECTS

IPL Data Analysis

- Predicted match outcomes and visualized performance using AWS S3, PySpark, and Databricks.

Snake and Ladder

- Built game in Java utilizing OOP concepts, arrays, and random number generation.

Network Traffic Analyzer

- Built a network traffic analyzer using Python and Scapy on Linux, identifying potential security threats via TCP/IP protocol analysis.

Cloud-based Storage Account

- Developed a Docker-based Azure Blob Storage system improving data retrieval efficiency.

MP3 player design

- Designed a user interface for listing songs using Angular, and .Net.

Chat Board Application

- Built a Q&A platform supporting posting, voting, and collaborative editing using Angular, and .Net.

Computer-Aided heart sound detection

- To forecast a person's health based on the tone and intensity of heart sounds.

HONORS & AWARDS

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

SKILLS

- Programming Languages: C, C++, Python (NumPy, Pandas, Scikit-learn), Java.
- Database Technologies: Stored Procedures, PIVOT, SQL.
- Development Methodologies and Tools: Object-Oriented Programming, Postman, Git, Jira, Azure DevOps, GitHub.
- Web Development: Flask, microservices, ASP.NET MVC, C#, .NET Framework, Web APIs, Angular, TypeScript, JavaScript, HTML, CSS, Entity Framework, LINQ, MySQL.
- Data Technologies: CQRS, Kafka, Docker, PostgreSQL, XML, PySpark, Databricks, AWS S3.
- Analysis and Visualization: NumPy, Pandas, Scikit-learn, Jupyter Notebook, Business Analytics.
- Networking: TCP/IP protocol analysis.
- Cloud Technologies: Docker, Azure Blob Storage.