

# Pritam Thapa

**Email** - pritam.thapa2043@gmail.com

**Phone Number** - 8729927145

**LinkedIn** - [linkedin.com/in/pritam-thapa](https://www.linkedin.com/in/pritam-thapa)

**Portfolio** - [pritamthapa.app](https://pritamthapa.app)

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## PROFESSIONAL SUMMARY

Full-stack Developer with 3+ years of experience building scalable, real-time web applications using modern React/Node stacks. Focused on clean code architecture and performance-driven user experiences across the full development lifecycle.

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## PROFESSIONAL EXPERIENCE

**Sonicbolt Technologies LLP**

**Nov 2021 - Present**

**Module Lead - Full-stack Developer**

**Asset Management Module**

- Led end-to-end development of Asset Management module, including REST API design, database schema, and interactive React UI deployment
- Reduced query latency by 60% by designing optimized PostgreSQL data models, REST APIs, and indexing strategies
- Developed WebSocket APIs for real-time CSV import of over 2,000 assets data with live progress tracking
- Developed a real-time asset monitoring system with SSE, delivering instant push notifications for status changes and alarms
- Developed core UI framework with 10+ reusable components (tables, filters, export tools, CSV importers), adopted across multiple modules
- Conducted rigorous load testing using JMeter, validating system stability and performance under load (200+ concurrent users).

**BIM Module**

- Led the end-to-end development of the BIM module, including REST API design, database schema, and interactive React UI deployment
- Developed interactive 3D model visualization within the React application using React Three Fiber (R3F) and Three.js.
- Optimized 3D model loading through LOD techniques and mesh compression, improving render speed by 45%

**Project Leadership**

- Managed Agile sprints for team using Jira, shipping features 20% faster
  - Mentored 2 junior developers on React best practices and 3D math fundamentals
  - Mentored 4 junior QA testers on test case design, execution techniques, and defect reporting.
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## TECHNICAL SKILLS

- **Frontend:** React, JavaScript, TypeScript, CSS, Tailwind CSS, Three.js, React Three Fiber
  - **Backend:** Node.js, Express
  - **Database:** PostgreSQL
  - **Testing/QA:** JMeter, Lighthouse, Postman
  - **Tools:** Jira, Git, Docker
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## EDUCATION

**Bachelor of Technology - CSE**  
Assam Don Bosco University

**June 2017 - July 2021**