

Trinath Pittala

+1 (864) 623-8616 | subhash8111999@gmail.com | linkedin.com/in/trinathpittala | github.com/Lasterminator | trinathpittala.com

EXPERIENCE

Clemson University, Clemson, SC, USA

Systems Developer/Programmer

May 2024 - Present

- Built a full-stack React + Node.js dashboard with OAuth 2.0 authentication, REST APIs, and WebSocket integration for real-time device state management across 54 classrooms
- Developed a secure React-based network management platform integrating Shibboleth SSO and Duo MFA to authorize high-stakes PoE power cycling, backed by a MySQL based audit engine for logging
- Designed and implemented REST API integrations for 12+ Cisco video systems, automating Zoom/Webex session control and device preset orchestration through a centralized platform
- Engineered JavaScript automation workflows for AV hardware transitions, reducing runtime errors by 30%, and built a programmable voice routing system that cut IT resolution time by 75%

RBL Bank, Mumbai, Maharashtra, India

Software Engineer

Jul 2021 - Dec 2022

- Architected a high-throughput transaction reconciliation portal using ASP.NET and SQL Server, automating error resolution for 1 million+ daily payments and reducing manual effort by 65% and processing time by 4 hours daily
- Developed a dispute resolution system on .NET Core that streamlined validation workflows for failed and cancelled payments, reducing transaction failure rates by 78%
- Automated the partner onboarding process using .NET Web API (C#), improving collaboration efficiency for corporate clients managing relations with over 1000 concurrent vendors
- Optimized performance of banking portals by rewriting critical database queries (T-SQL) and API endpoints (Entity Framework), reducing server load by 30% and improving response times by 50%
- Engineered 100+ unit tests for .NET Core payment APIs using MSTest to validate transaction logic and RBI regulatory compliance, reducing production defects by 35% post-release

Glocol Networks, Sacramento, CA, USA

Software Engineer Intern

Jul 2020 - Apr 2021

- Built a public transit occupancy tracking system that converted Bluetooth scan data from trains into 96%-accurate passenger counts using DynamoDB pipelines and ML models
- Migrated workloads by moving to AWS Lambda, cutting compute costs by 40% and achieving millisecond latency. Integrated Cypress/Jest tests into GitHub Actions, speeding up regression detection by 80%.
- Designed automated data pipelines to ingest and transform IoT sensor data from 35+ devices (DynamoDB), then visualized trends via AWS QuickSight, cutting manual report generation

EDUCATION

Clemson University | M.S. Computer Science

Jan 2023 – Dec 2024

BITS Pilani, Hyderabad | B.E. Computer Science and Engineering

Aug 2017 – Aug 2021

SKILLS

Languages Python, C#, JavaScript, SQL, C++, Java, Typescript

Frameworks .NET Core, .NET MVC, Entity Framework, LINQ, React, MSTest, Node.js, REST APIs

Tools/DB Git, Docker, Kafka, Postman, AWS, EC2, S3, Quicksight, SQL Server, MongoDB, DynamoDB, PostgreSQL

PROJECTS

OrgLicenseManager

.NET 8, PostgreSQL, Entity Framework Core

- Developed a multi-tenant SaaS API with JWT authentication and role-based access control for managing organizations, email-based invitations, and software license assignment with automatic renewal via background services

Infinite Labyrinth

React Native, Expo, TypeScript, Firebase

- Built a cross-platform 3D maze game with procedurally generated levels using the Hunt and Kill algorithm, featuring progressive difficulty (7x7 to 51x51 grids), swipe/keyboard controls, and time-based scoring with global high scores