

Ishan Pathak

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SUMMARY

Software engineer with production experience building and deploying enterprise applications end-to-end for state agencies. Strong in customer-facing problem solving, debugging complex systems, and shipping features from database to UI. Published AI/ML researcher with hands-on edge computing and IoT deployment experience.

TECHNICAL SKILLS

Languages: C#, Python, JavaScript, TypeScript, SQL, HTML/CSS, PowerShell

Frameworks & Tools: ASP.NET Core, Blazor, React, Node.js, Entity Framework Core, GraphQL

Cloud & Infrastructure: Azure (SQL, App Services, Elastic Pools, Cloud Shell), Docker, CI/CD Pipelines

Data & AI/ML: SQL Server, PostgreSQL, PyTorch, TensorFlow, Scikit-learn, Pandas, RAG Systems

Practices: Git, Agile/Scrum, ERP Integration, Stored Procedures, Dependency Injection, REST APIs

EXPERIENCE

Software Developer

Albany, NY

Center for Human Services Research (CHSR), Research Foundation for SUNY

October 2025 – Present

- One of 6 developers responsible for enterprise .NET applications serving 100,000+ users across New York State; primary developer on most new features for the past year, owning end-to-end delivery from requirements through deployment
- Built SqlPerfMonitor, a real-time Blazor Server performance dashboard for multi-database Azure SQL monitoring; traced and resolved a critical EF-generated query bottleneck affecting production elastic pool performance
- Executed a major database migration normalizing legacy bit-flag columns to a relational schema across 25,500+ rows; redesigned ACEAssessment storage from JSON blobs to normalized per-row response tables with FK constraints
- Developed PowerShell onboarding automation (Setup-HFNY.ps1) for new developers; managed Azure resource tagging across 240+ resources in 38 resource groups via Cloud Shell scripting

Frontend Developer Intern

Remote

Securr (Web3 Security)

October 2023 – July 2024

- Implemented multi-vendor 2FA (Firebase, Microsoft Identity, SMS) securing 3 authentication flows; deployed customer-facing chatbot integration increasing inquiry capture from 2,000+ monthly site visitors
- Built responsive React components for security dashboard; integrated Web3 wallet connectivity and real-time transaction monitoring interfaces

PROJECTS

PortfolioHub | AI-Powered Document Parsing & Template Rendering

April 2025 – Present

- Sole developer of an AI platform (500+ users) that parses unstructured resume documents and extracts structured data into professional portfolio websites; built end-to-end template system rendering dynamic user data across multiple layouts
- Designed document understanding pipeline handling diverse input formats, edge cases, and missing fields — directly analogous to parsing PDFs, emails, and Excel into ERP systems

SNN-PC-CNN Hybrid Architecture | Novel Neural Network Research

March 2026 – Present

- Designed from-scratch hybrid combining CNNs, Predictive Coding, and Spiking Neural Networks; achieved 83.7% CIFAR-10 accuracy with +5.0% gain from PC ablation and 0.613 error-spike correlation; IEEE ICONS 2026 paper in progress

Smart Home Sensor Analytics Platform | Edge AI & IoT Deployment

October 2025 – December 2025

- Built multi-sensor IoT platform (mmWave radar, LiDAR, DHT22) on Raspberry Pi with ML prediction models for behavioral pattern detection; deployed edge inference pipeline processing real-time sensor data in physical environments

EDUCATION

University at Albany, SUNY

Albany, NY

M.S. in Computer Science

August 2024 – May 2026

ITM SLS Baroda University

B.Tech., Computer Science with AI | GPA: 3.4/4.0

August 2020 – May 2024

Certifications: Google Cloud Certified — Cloud Digital Leader, Cloud Infrastructure, Data & ML Foundations

Hackathons: Winner at ChainLink, EthIndia, EthGlobal, Solana Hacker House (4 wins, built under 24–48hr constraints)