

# RY SELVAGANAPATHY

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## OBJECTIVE

Full-Stack Developer with expertise in modern web technologies. Proven ability to build scalable applications using React.js, Node.js, and Python. Experience deploying cloud-based solutions and developing ML models for production systems. Strong problem-solving skills with startup environment adaptability.

## EXPERIENCE

**Cyber Security Analyst Intern** — Ana-data Consulting Services, Chennai — Jul 2025 - Present

- Training on Cybersecurity Fundamentals, Risk Assessment, and Compliance Management
- Developing expertise in Red Team and Blue Team security operations and threat analysis
- Conducted comprehensive Vulnerability Assessments and Penetration Tests (VAPT) to identify security flaws and enhance overall security posture

**Full-Stack AI Developer Intern** — Excelencia iTech Consulting Pvt. Ltd., Chennai — Mar - Apr 2025

- Engineered a high-performance media streaming pipeline for a social media application, implementing progressive video streaming logic to optimize backend performance, reduce latency, and minimize user bandwidth consumption
- Developed and deployed a real-time text classification filter using Natural Language Processing (NLP) to proactively analyze and block inappropriate language within an AI-driven content moderation system
- Built and trained a Computer Vision model for image recognition using Python and a 25,000-image dataset, automating content filtering and ensuring platform safety via supervised learning

**Digitalization Developer Intern** — BMW Group India Pvt. Ltd., Chennai — Oct - Dec 2024

- Designed and deployed a comprehensive Training Management System leveraging the low-code SharePoint platform to automate and streamline the end-to-end workflow for tracking employee training and evaluations
- Engineered the system's data security layer by implementing a robust Role-Based Access Control (RBAC) model within an integrated MS Access database to ensure secure information management and user permissions

## TECHNICAL SKILLS

**Front-End:** React.js, HTML5, CSS3, JavaScript, TailwindCSS, Responsive Design, UI/UX Implementation

**Back-End:** Node.js, Express.js, Python (Django), GraphQL, Microservices

**Databases:** PostgreSQL, MySQL, MongoDB, Database Design & Optimization

**AI Integration:** OpenAI API, TensorFlow, PyTorch, XAI, VAE, GANs, Chatbots, Recommendation Systems

**Cloud & DevOps:** AWS, Firebase, Docker, Git, GitHub

## KEY PROJECTS

**LeetCode Students Coding Performance Tracker with AI Analytics**

- Built using React.js frontend, Node.js backend, PostgreSQL with integrated PyTorch ML models
- Features AI-powered personalized learning paths, automated code review, and predictive performance analytics

**PyQt5 Web Browser with Intelligent Content Processing**

- Developed functional web browser with in-built Ad Blocker capabilities using Python, PyQt5, QtWebEngine
- Integrated smart bookmarking categorization and ML-based malicious site detection

**Smart Loan Product Advisor with Advanced ML Pipeline**

- Built comprehensive loan advisory system using Flask, Scikit-learn with deep learning components
- Features neural network-based credit scoring, automated document analysis, and predictive workflows

**Voice-Based Sentiment Analyzer with Multi-Modal AI**

- Developed real-time emotion classification using Flask, Google Speech API, and PyTorch models
- Features cross-platform deployment, real-time visualization dashboard, and multi-language detection

## EDUCATION

**Bachelor of Engineering in Computer Science & Engineering**

Easwari Engineering College, Anna University — Expected Graduation: 2026

Specialization: Cyber Security — Relevant Coursework: Full-Stack Development, AI/ML, Database Systems

## ACHIEVEMENTS

- Led team to 14th place in IIT Madras IndustriAI Hackathon (250+ teams) - developed Web API solution for Aggressive Nudging.
- Won 2nd prize Datatrix competition - built responsive web application
- Delivered BMW training system under tight deadline using modern full-stack technologies and cloud deployment
- 5th place Proxy Hackathon - developed real-time data processing web application with performance optimization