Vishesh Choudhary
Software Engineer

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SUMMARY

Software Engineer with **1.5 Years of Experience** designing, developing, and deploying scalable products using **Python, Golang, Rust & Elixir**. Proficient in **full-stack development and backend architecture** with a strong focus on solving complex challenges. Expertise in building and deploying **machine learning** models using **TensorFlow, PyTorch.**

EXPERIENCE

Tune AI   06/2023 – 02/2024
Machine Learning Engineer
Internship

• Engineered and automated **end-to-end ML pipelines** (training, validation, deployment), cutting experimentation **cycle time by 40%** and **accelerating feature delivery**.
• Deployed **production-ready ML** models **serving real-time predictions at scale**, improving **decision accuracy** across client-facing systems.
• Partnered with cross-functional product, infra, and data teams to drive **seamless ML adoption**, boosting **system reliability** and reducing downtime.

Economize.cloud   01/2022 – 07/2022
Backend Developer & UI/UX Engineer
Internship

• Designed and shipped **responsive, data-driven** UIs used by **1K+ users**, increasing task completion speed by **30%** and cutting onboarding friction.
• Developed backend integrations with **Google Cloud Platform** and **SendGrid API**, reducing manual communication workflows by **25%**.
• Collaborated with designers and engineers to **deliver pixel-perfect**, user-centric experiences, raising customer satisfaction scores.
• Contributed to a **scalable cloud cost-optimization** platform, enabling clients to cut infrastructure expenses by measurable margins.

TECHNICAL SKILLS

Programming Languages
Python, Rust, Go, Elixir, C++, Java, SQL, Shell, Unity, C#
Mobile Development
Native Android, Flutter, React Native
Web Development
Three.js, Vue, React, Typescript
Machine Learning Libraries & Tools
TensorFlow, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas
Data Handling & Visualization
Big Data Processing, Data Quality Inspection, Data Preprocessing
Cloud & Deployment Technologies
Docker, Kubernetes, AWS, Azure, Terraform, Grafana,

CERTIFICATIONS

● Concurrent Programming With GO
● Advanced Branching and Looping in GO
● Building Distributed Applications with GO
● Bayesian Methods for Machine Learning
● DeepLearning.AI TensorFlow Developer
● Deep Learning Specialization
● Advanced Linear Models for Data Science 1: Least Squares
● Advanced Linear Models for Data Science 2: Statistical Linear Models
● Sequence Models for Time Series and Natural Language Processing on Google Cloud
● Advanced C Programming Integrating C and Assembly Language
● Advanced C ThreadSafe Data with Concurrent Collections
● Developing Source Generators in C#

PROJECTS

● **DDoS Attack Mitigation Using SDN and MLP**: A Combination of **Software Defined Network** (**SDN**) and a **Multi Layer Perceptron** (**MLP**) **Neural Network** for **Mitigating DDoS Attacks** Using **Rust** & **Python**.
● **Aeon Keys - Wavetable Synthesizer**: Browser-Native Wavetable Synthesizer Built Using **Rust DSP**, **WebAssembly**, and **Web Audio API**.
● **Prisonic Fairytale:** Chrono Trigger-inspired **MMORPG** Built with **Godot**, **Elixir**, and **Docker**. Retro SNES Style Meets Real-Time Multiplayer, Persistence, Scalable and Fault-Tolerant Backend.
● **Session Hijacking Prevention**: Prevention of Session Hijacking using Session ID Reset Approach with the Implementation of **Kerberos** Algorithm in **GO**.
● **Neo High-Performance Single-file HTTP Server**: A High-Performance HTTP Server Built in **Rust**, **~2x** faster than **Miniserve** by Specializing in Minimal Request Handling.

EDUCATION

Vellore Institute of Technology
Integrated Master of Technology (MTech.), Computer Science Engineering · (June 2020 - July 2025)
Grade: 9.03/10.0 CGPA, Grade - S