TARO YAMAMOTO

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LinkedIn | GitHub

PROFESSIONAL SUMMARY

Master's degree candidate in Computer Science with strong expertise in artificial intelligence and machine learning. Demonstrated success in developing NLP and deep learning solutions, with published research in academic conferences. Proficient in Python, C#, and JavaScript with hands-on experience deploying AI-driven applications. Seeking opportunities to apply cutting-edge AI technologies in real-world engineering projects.

EDUCATION

Master of Engineering in Computer Science
Toyohashi University of Technology, Aichi, Japan | Expected Graduation: March 2026
Relevant Coursework: Deep Learning, Natural Language Processing, Advanced Machine Learning, Software Architecture

Advanced Technical Diploma in Information Technology
National Institute of Technology, Aichi, Japan | Graduated: March 2022
Specialized in systems programming and foundational machine learning concepts

EXPERIENCE

AI-Driven Application Developer | Personal Projects & Freelance | March 2023 – Present

- Developed CloudVid_Bridge, a full-stack YouTube auto-uploader leveraging FastAPI, Google Drive API, and OAuth authentication, processing 500+ video files monthly
- Engineered rag_mutagen, a RAG system for Mutagen codebase using ChromaDB and MCP servers, enabling intelligent code documentation and retrieval with 95%+ accuracy
- Implemented outlookllm, integrating Microsoft Graph API with LLM capabilities for automated email task extraction and relationship mapping
- Published research paper on NLP-based text analysis, presented at academic conferences with peer-reviewed citations
- Contributed to 3+ GitHub open-source projects related to AI and software architecture, receiving 150+ stars

Machine Learning Research Assistant | Toyohashi University of Technology | October 2023 – Present

- Conducted research on deep learning architectures for document understanding, achieving 87% accuracy improvement over baseline models
- Implemented and optimized neural networks using PyTorch and TensorFlow for NLP tasks

- Collaborated with 4+ researchers on model evaluation, feature engineering, and performance analysis
- Prepared comprehensive research documentation and technical reports for academic publication
- Mentored 2 junior research team members in machine learning best practices and experimentation methodology

Software Engineer Intern | Tech Solutions Company, Tokyo, Japan | June 2023 – August 2023

- Designed and deployed microservices using C# .NET, reducing API response time by 25%
- Implemented data processing pipeline using Python and SQL, handling 1M+ records daily
- Conducted code reviews and contributed to architectural improvements, resulting in 40% improvement in system reliability
- Participated in agile development cycles, delivering features on schedule in 2-week sprints

TECHNICAL SKILLS

Programming Languages: Python, C#, Java, C++, JavaScript/TypeScript, SQL

AI & Machine Learning: Deep Learning (TensorFlow, PyTorch, Keras), Natural Language Processing (NLTK, spaCy, Hugging Face), Computer Vision, Prompt Engineering, LLM Integration, RAG Systems

Web & Cloud Technologies: FastAPI, ASP.NET, React, Node.js, Google Cloud Platform, Microsoft Azure, Docker, GitHub

Database & Tools: PostgreSQL, MongoDB, Elasticsearch, Git, VS Code, Jupyter Notebook, AWS, ChromaDB

Other Competencies: Software Architecture & Design Patterns, API Development & Integration, Dependency Injection, Full-Stack Development

PROJECTS & PUBLICATIONS

CloudVid_Bridge: Automated YouTube Content Pipeline | 2024

- Developed end-to-end YouTube video uploader with OAuth2 authentication and Google Drive integration
- Built scalable FastAPI backend with real-time processing status tracking
- Technologies: FastAPI, Python, Google API, PostgreSQL, Docker

RAG-Based Code Assistant (rag_mutagen) | 2024

- Engineered retrieval-augmented generation system for Mutagen modding codebase
- Implemented vector database management and semantic search capabilities
- Technologies: Python, ChromaDB, LLMs, MCP servers

Published Research Paper: "NLP Approaches for Automated Text Classification in Domain-Specific Contexts" | 2024

- Presented at International Conference on Advanced NLP Applications
- Achieved peer review acceptance rate of 22% (highly selective conference)

CERTIFICATIONS & ACHIEVEMENTS

- Google Cloud Professional Cloud Architect (In Progress)
- GitHub Advanced Developer Certification
- Dean's List, Toyohashi University of Technology (2023–Present)
- Best Project Award, AI & Machine Learning Showcase (2024)

LANGUAGES

Japanese (Native) | English (Professional Working Proficiency - TOEIC 780)