

Taeyang Kim

taeyangkim.info

SUMMARY

- Award-Winning Developer: Won 1st Place at 6 different hackathon competitions and “2024 Employee of the Year”
- AI/ML Innovator: Delivered 75% fewer IT tickets and 87% faster resolutions with RAG and semantic models
- Full-Stack Engineer: Built scalable apps and optimized performance with React, Node.js, AWS, FastAPI, and PostgreSQL

EXPERIENCE

Pattern

Apr 2023-Present

Machine Learning Engineer

Lehi, UT

- Reduced average IT ticket numbers 75% and resolution time 87% by automating IT ticket resolutions using a RAG from OpenAI embedding with GPT 4o and Snowflake, and comparing its result with fine-tuned GPT 3.5 turbo and LLaMA2
- Created an AI vision model testing tool with statistics metrics for comparing GPT 4o, 4o-mini, Claude 3, and Claude 3.5 Sonnet implementing Batch Inference Jobs for Claude models overcoming limitations from AWS resources
- Upgraded audience data for AI product content brief using a semantic search with Python, Snowflake, SERP, and OpenAI

Iris AI Assistant

Dec 2024-Present

Software Engineer

Remote, US

- Achieved 27% increase in user engagement by creating a reminder API with AWS EventBridge, SQS, and Lambda
- Resolved multiple bugs in the AI text assistant, improving functionality across Apple LiveChat, group chat, and Twilio

Sandia National Laboratories

Sep 2023-Apr 2024

Machine Learning Engineer

Remote, US

- Achieved 99.7% accuracy on classifying log data for multi label network intrusion by building a full-stack python package (insyt) using DistilBERT, React, Node, Redis, and SQLite with Python and JavaScript

Converus

Jun 2023-Sep 2023

Software Engineer Intern

Lehi, UT

- Built an administrator dashboard, premium test result, blog, about, and accuracy pages using GraphQL, Google Firebase, Firestore, Next.js, React.js, Node.js, TailwindCSS with TypeScript and JavaScript
- Implemented Data Analytics tools such as Split.io, Google Analytics, and Ad Tracker with an internal dashboard

BYU DRAGN Lab

May 2022-Apr 2023

Research Assistant

Provo, UT

- Developed a full stack web app for an Amazon Alexa Competition Finalist LLM model with Flask, React, Neo4J, Python
- Invented a farming robot that gives water, fertilizer, weed killer, and moves using Flask, Python, C++, Supabase, Raspberry Pi, Arduino, LiDAR sensor, Humidity sensor, DC Motor, Stepper Motor, and Camera

Leftovers

Nov 2022-Jan 2023

Software Engineer

Provo, UT

- Structured a real-time business dashboard displaying critical ad hoc data with an authentication, REST APIs, and UI through React, Next.js, TypeScript, Rust, PostgreSQL, Supabase, and TailwindCSS
- Expertly organized a relational database and RESTful APIs for CRM applying Rust and PostgreSQL

BYU Broadcasting

Mar 2022-Nov 2022

Software Engineer

Provo, UT

- Released a Video Stream-Save V2 with a CI / CD pipeline using AWS CDK2 to enable lambda versioning
- Reduced Video Stream Save Service CI / CD Time by 40% resulting in faster delivery of content to users with Docker
- Implemented a Live Video Stream Service with a Rewind Function like a YouTube Live Stream using Node.js and S3

EDUCATION

Georgia Institute of Technology

Jan 2025 - Dec 2027

Master of Science: Computer Science

Atlanta, GA

Brigham Young University

Sep 2020 - Apr 2024

Bachelor of Science: Computer Science, Emphasis in Data Science

Provo, UT

- Full Academic Scholarship (2021-2022), Tech President at BYU Korean Business Student Association

AWARDS & HONORS

- **Employee of the Year** - Recognized among 1,780 employees by the Unicorn Founder and CEO during Accelerate 24
- **1st Place** - 2024 Utah Developer Hackathon Competition - justbuild.ing
- **1st Place** - 2024 BYU Computer Science Senior Capstone Project Competition in Machine Learning
- **1st Place** - 2024 BYU ACM YHack Hackathon Competition with Benny Award
- **1st Place** - 2023 BYU ITCSA Raspberry Pi Competition (Best Robotics Competition in BYU)
- **1st Place** - 2022 BYU ACM YHack Hackathon Competition (Best CS Hackathon Competition in BYU)
- **1st Place** - 2017 DIPA Internet of Things Hackathon Competition (Best IoT Hackathon Competition in South Korea)

SKILLS

- Certifications: AWS Cloud Practitioner (June 2022), Cisco Introduction to Internet of Things (Oct 2018)
- Languages: Python, JavaScript, TypeScript, Ruby, SQL, Java, Dart, Rust, C++
- Frameworks: React.js, Next.js, Node.js, FastAPI, Flutter, Ruby on Rails, Docker, Tensorflow, PyTorch, Flask, Redis
- Database: Amazon S3, DynamoDB, PostgreSQL, Snowflake, MongoDB, Google Firebase, MySQL, SQLite