Dilan Swami

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SKILLS

Technologies: React, Next.js, Node.js, REST API, Docker, Flask, Django, LLMs, AI/ML, AWS, APIs, Agile, CI/CD
Languages: SQL, Python, JavaScript, TypeScript, PHP, HTML, CSS, C++, Java, Bash Script

CERTIFICATIONS

AWS Solutions Architect - Associate (2024)
TensorFlow for AI and Machine Learning (2022)

EXPERIENCE

3DS   **Royal Oak, MI**
Software Engineer   *May 2024- Aug 2024*
- Developed backend API, core data flows, analytics, and dashboard for LAMP (Linux, MySQL, Apache, PHP) application with CI/CD pipelines to automate testing and Agile method that improved development efficiency by 20%
- Built interactive dashboard in JavaScript for real-time visualization of model data on Linux system, deployed on Docker
- Delivered customized DevOps solution, reducing downtime for the client's software product with 100+ users by 80%

Desai Startup Accelerator   **Ann Arbor, MI**
Software Developer   *May 2023- Dec 2023*
- Reduced time to checkout by 50% through development of secure authentication process with JavaScript, Tailwind CSS, AWS Amplify and Cognito
- Troubleshooted Node.js application with fixes in TypeScript and GraphQL, retaining 25% of revenue from sellers
- Achieved a 10x reduction in advertisement creation time by creating a marketing video platform with MongoDB, React, TypeScript, Next.js stack, utilizing Linux scripting for process automation

Alivio   **Ann Arbor, MI**
Software Engineer   *Sept 2022- May 2023*
- Built relationships with 40 healthcare leaders, chiefs, and former presidential advisor to onboard 5 nursing staffs
- Developed a web application in React, Python, Flask, PostgreSQL with RESTful API, CI/CD pipelines with GitHub Actions, and AWS E2 instances to enable nurses in third-world hospitals to remotely access and change text/image data

Scienaptic AI   **Remote**
Machine Learning Engineer   *Jun 2022- Aug 2022*
- Designed enterprise-grade data visualization solutions using Python, NumPy, and Seaborn, improving decision-making for clients
- Developed machine learning models with Python/Scikit-learn to assess borrower loan repayment likelihood, optimizing bank lending strategies

AI

Financial RAG Application
- Developed RAG pipeline to analyze 25+ page financial history documents, utilizing OpenAI APIs with Django backend, custom embeddings, semantic chunking, and multi-threaded extraction to reduce latency by 40%

Onboarding Tool
- Created onboarding application with Google Gemini 1.5 LLM API audio/text processing to aid new developers learning from Github repositories with 20+ million tokens, using Python FastAPI/React stack

AI Encoder-Decoder Architecture
- Built a VAE with Vision Transformer (ViT) in Python/PyTorch to tokenize image patches, apply positional encodings, and extract features with self-attention, using beta-VAE regularization for disentangled latent spaces

EDUCATION

University of Michigan College of Engineering   *BS in Computer Science*