

Pradhyumna Nagaraja Holla

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☎ (551) 235-3713 • STEM OPT (Eligible 3-years)

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Professional Summary

Software Engineer with over 3 years of experience in software development, cloud computing, machine learning, and backend systems, seeking SWE/AI-ML Intern roles. Proficient in building AI-driven applications, developing machine learning models, and deploying scalable backend solutions using Python, AWS, and TensorFlow. Strong background in Cloud Services, Natural Language Processing (NLP), Computer Vision, Deep Learning, with a passion for innovative problem-solving and enhancing customer solutions. Looking to leverage my experience in backend development and ML to drive impactful projects at a tech-focused organization.

Education

Stevens Institute of Technology

Masters in Computer Science

Concentration: Machine Learning

Hoboken, NJ

September 2024 - May 2026

Jyothy Institute of Technology

Bachelor of Engineering in Information Science

Bengaluru, India

August 2017 – July 2021

Skills

- **Technical:** Python, HTML/CSS, JavaScript, TypeScript, C, Dart, Java
- **Frameworks:** TensorFlow, PyTorch, Scikit-Learn, PySpark, Django, Flask
- **AWS Services:** Lambda, SAM, API Gateway, DynamoDB, S3, SES, EventBridge, EFS, SageMaker, Bedrock, EC2, ECR
- **Tools:** Databricks, LangChain, LangSmith

Experience

Stevens Institute of Technology

Research Assistant - Natural Language Processing Lab

Hoboken, NJ

December 2024 - Present

- Conducting research on Large Language Models (LLMs) with focus on enhancing capabilities through external tool integrations
- Implementing and evaluating various architectures for LLM integration with internet access and external APIs
- Contributing to academic publications in the field of Natural Language Processing

AntStack Inc

Member of Technical Staff - 2

Bengaluru, India

March 2022 – July 2024

- Built a chatbot powered by OpenAI's GPT-4 and LangChain, integrated with Google Docs, Sheets, Calendar, Meetup, and Jira for a Europe-based client
- Developed processes to monitor file uploads and pipeline failures on Databricks and alert relevant teams for a Singaporean Company
- Designed a solution for executing ML Algorithms in the backend, and sending plots to the front end for a product based company
- Developed a Natural Language Processing module for a Dispute Resolution project including complaint summarization for a law firm client
- Developed a Proof of Concept for fraud detection using Machine Learning and Rule-Based Systems on Databricks
- Authored technical blogs on trending technologies to boost company's digital presence and client acquisition

Queppelin Technology Solutions

Application Developer

Bengaluru, India

May 2021 – February 2022

- Developed a Music Genre Classifier Web Application using Deep Learning library TensorFlow, audio analysis library Librosa and deployed on AWS EC2
- Devised and built a solution to eliminate duplicate product lists for product reviews between multiple Excel files for a popular news network
- Led and mentored interns through their internship, involving Proof of Concepts development and upskilling with industry relevant frameworks
- Engaged in various internal company projects

Queppelin Technology Solutions

AR-AI Intern

Bengaluru, India

October 2020 – April 2022

- Developed POCs demonstrating human body segmentation on Augmented Reality using Tensorflow, TensorflowJS and React
- Implemented an interactive 3D visualization project using Three.js and AR.js, showcasing immersive web-based augmented reality experiences with marker-based tracking
- Built multiple Proof of Concepts demonstrating expertise in Python and Data Science, leading to a full-time role offer

Certifications

- **Google Cloud Professional Machine Learning Engineer**
[Certification Link](#)
- **Coursera Deep Learning Specialization**
[Certificate Link](#)
- **Coursera DeepLearning.AI TensorFlow Developer**
[Certificate Link](#)

Recognitions & Achievements

- Part of AWS Community Builder Program (Machine Learning) since 2023
- Mentored and Co-hosted "GAMEATHON", an inter-college game development competition at Jyothy Institute of Technology (09/2019, 11/2020)
- Received Recognition Award for Marketing Efforts at Jyothy Institute of Technology for representing the college at education summits(2018 - 2019)

Technical Writing

Authored technical blogs on AWS Machine Learning, Generative AI, and Cloud Computing:

- [AWS Machine Learning - Extract Medical Insights with Amazon Comprehend Medical](#)
- [AWS Machine Learning - Build, Train and Deploy a Serverless Image Classifier using Amazon SageMaker, AWS Lambda and EFS](#)
- [OpenAI Embeddings, GPT-3.5, Pinecone and AWS Lambda: Building a Serverless QA Chatbot](#)
- [OpenAI + DynamoDB: Build a Conversational Chatbot with LangChain](#)
- [Start the Party! Build AI Apps Seamlessly with AWS PartyRock](#)
- [OpenAI + DynamoDB Part 2: Using Partition and Sort Key for Chat Memory with LangChain](#)