

Harrie Adams Senior Software Engineer

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📁 PROFESSIONAL EXPERIENCE

Team Lead & Senior Computer Vision Software Engineer *Boston Dynamics*

03/2020 – 01/2023 | Massachusetts, United States

- Managed and designed research and analysis to improve business performance across and within 7 departments.
- Processed time-series big data using Hadoop and PySpark, then applied other model.
- Implemented stock trend prediction using Google Cloud Platform (GCP) and Business Analysis using RNN, Bi-LSTM and Markov Model.
- Leveraged big data to discover patterns and solve strategic analytic business problems
- Have done An end-to-end LSTM-based Ping Pong Ball Rotation trajectory prediction model.
- Developed self-driving car software for integrating multiple sensors and three types of cameras and deployed on car and self-driving robot.
- Designed and Built the immersive 3D model that allowed users to explore the model in an engaging way.
- Design, test, and deploy new artificial intelligence functionalities for 13 major projects of the company worth \$4.7M in total.
- Experience with various frameworks such as TensorFlow, Pytorch, Scikit-Learn and Keras in cross-platform like Linux and so on.
- Developed an MLOps pipeline for training, deploying, monitoring, and managing machine learning models in production environment with high availability features enabled using Kubeflow, TensorFlow Extended Airflow, MLFlow, etc

Project Manager & Computer Vision Software Engineer *Granify*

07/2017 – 02/2020 | Edmonton, Alberta, Canada

- Developing robust software for integrating multiple sensors and tracking systems.
- Develop novel real-time 3D scene reconstruction techniques and delivering accurate visual odometry systems
- By implementing Biometrics Project using optical sensors and pattern recognition algorithms, the company's monthly income increased by 26%
- Design and execute well-engineered, easy-to-maintain, reliable, and bug-free code for various company applications in collaboration with other AI engineers, data scientists, programmers, and software personnel.
- Decision Trees, Clustering, Customize Neural Networks, and SVMs were used to analyze customer data such as purchasing power, demographics, and other behavioral data to identify customer personality traits.

Machine Learning Engineer *Ubic, Inc.*

04/2015 – 03/2017 | Tokyo, Japan

- Developed molecular dynamics simulations using machine learning algorithms to identify protein-DNA interactions with up to 95% fidelity. And the developed system was further deployed to medical robots and medical robot arms.
- Improved accuracy of simulation up to 30% using various algorithms.
- Designed and completed analysis systems to extract information from large scale data.
- Predicted product sales to within 2% by applying logistic regression model

👤 SUMMARY

I am a Senior Software Engineer with with 10 years of experience in programming, 8 years of professional experience as an artificial intelligence engineer and approximately 3 years of web development.

- My expertise lies in developing and deploying machine learning models, computer vision systems, natural language processing (NLP) systems and deep learning architectures.
- I am experienced in leading teams of engineers to develop complex Artificial intelligence Software.
- Having strong background in mathematics, statistics, and software engineering.
- Have worked on projects ranging from autonomous vehicles to medical diagnostics.
- Experience in 3D modeling, 3D texturing, and 3D animation using Artificial Intelligence Techniques.
- My experience includes working with various Web technologies such as Java, JavaScript, node.js, react, angular, HTML/CSS, SQL, and NoSQL databases.
- I am passionate about creating high-quality software solutions that are reliable and maintainable.
- I have 5+ years of working experience in setting up and managing cloud infrastructure, deploying applications, and managing databases with AWS and GCP
- I am familiar with the various services offered by both AWS and GCP such as EC2, S3, RDS, Lambda, Cloud Functions, Compute Engine, App Engine, Big Query etc.
- I have also 4 years of working experience in setting up CI/CD pipelines using Jenkins and other tools.
- As programming languages, Python, Java, C++, C# , R, Django, MATLAB, JavaScript, React are my fundamental and first languages.

🧠 SKILLS

Programming Languages (Python, C/C++, C#, Matlab, JavaScript, PHP, React, Java, Angular, R, Matlab, HTML, CSS, Scala, Rubyonrails, Perl, nextjs, Threejs, Web3)

Artificial Intelligence (Computer Vision, Machine Learning, Deep Learning, OpenCV, YOLO, GANs, Keras, TensorFlow, Pandas, Pytorch, Unity, Autodesk 3ds Max, Maya, Virtual agents, Image Processing, Object Tracking, 3D rendering, Pattern Recognition, Sensor fusion technique, Biometrics, Automation and Robotics, Statistical Analysis)

Big Data and Data Management (Data Quality, Apache Hadoop, Data Pipelines ETLs, Data Modeling, Data Visualizing, Rapidminer, Apache Spark, Tableau, Power BI, Pyspark, Hive, Blockchain, MySQL, MongoDB, NoSQL)

Cloud Platform (AWS, GCP, Azure)

Devops & MLOps (Flask, Docker, Kubernetes, Git)

Full Stack Engineer & Machine Learning Engineer

iCoderz Solutions Pvt. Ltd.

06/2013 – 01/2015 | Maryland, United States

- Developed the Online Shopping Store where customers can purchase items from a variety of categories.
- Simple android projects related with marketing, face-recognition, whatsapp bot, telegram bot
- E-commerce sites with React.js and express.js
- Several computer vision project for Android app
- Developed a web application in 2 months which generates credentials for the new employees for instance employee id.
- C++ project for remote packet transfer and machine learning etc

PERSONAL PROJECT

Self-driving car software

This software is designed to interpret the data it receives and make decisions about how to navigate safely and efficiently. My developed software has been distributed to fully self-driving cars as well as semi-autonomous cars, driving robots, and drones, bringing innovation self-driving software development and many benefits in the company.

Custom 3D model experience for a client

This 3D model was designed to be interactive and engaging, allowing users to explore the 3D model from different angles and perspectives. I incorporated audio and visual effects to enhance the user confidence. The end result was an immersive 3D model that allowed users to explore the model in an engaging way.

Ping pong ball rotation trajectory prediction machine learning model

This model is used to predict the trajectory of a ping pong ball when it is hit by a paddle.

Especially, the model is used to generate realistic simulations of ping pong matches for training purposes.

AI powered Stock Price Prediction engine

I Implemented stock trend prediction using deep learning model. The goal of the project was to create a system that could accurately predict stock prices based on historical data. I deployed the model on GCP using Google App Engine. This allowed me to make predictions in real-time with minimal latency.

Customer Personality Analysis with Machine Learning Model

I used Decision Trees, Clustering, Customize Neural Networks, and SVMs to analyze customer data such as purchasing power, demographics, and other behavioral data to identify customer personality traits.

Customer detection and Customer personality analysis system in markets and stores by facial recognition.

This system would use facial recognition technology to identify customers as they entered the store, allowing for more accurate tracking of customer behavior.

And it also could analyze customer behavior in order to better understand their preferences and buying habits.

Whatsapp bot with NLP

This WhatsApp bot is a chatbot that is specifically designed to interact with users on the WhatsApp messaging platform. It is used to automate customer service tasks, provide information, and even complete transactions. This bot is powered by artificial intelligence and natural language processing technology, which allows them to understand user messages and respond in a meaningful way.

Online Shopping Store

This project involved creating a website that allowed customers to browse and purchase products from the store include a shopping cart, payment processing, and customer accounts.

EDUCATION

Bachelor of Computer Science(BCompSc)

University of California, Los Angeles (UCLA)

09/2009 – 05/2013 | Los Angeles, CA, United States

INTERESTS

Hiking

Music

Basketball

Image Processing

Computer Vision

Machine Learning

MY DREAM

My dream is to make my family live happily.

And And I want that the artificial intelligence systems I develop actually bring benefits to people and are widely used in various fields.

I think artificial intelligence has yet to reveal its true self.

I will contribute to the development of artificial intelligence with my technology, and I want to see the future of artificial intelligence.