JASDEEP AHLUWALIA

 linkedin.com/in/jasdeep-ahluwalia jasdeep.a@outlook.com

 github.com/ahluwalij twitter.com/JazaScript New York, NY (347)-322-3659

Education

Univ. of Maryland-College Park, Computer Science & Statistics *Expected Graduation: Dec 2024*
Relevant Coursework: Computer Vision, Intro Computing (Python), OO Programming/Data Structures (Java), Functional Programming/Data Structures (OCaml), Advanced Linear Algebra, Computer System Organization (C/C++), Practical Tools for Data Science (SQL, Tableau, Python, PySpark), Machine Bc Learning, Algorithms, Optimization, Data-Driven Web Applications.

BigTh!nkAI Artificial Intelligence Club
- Engineered a machine learning based Convolutional Neural Network to detect/distinguish between malicious malaria strains/cells in images using Python, Tensorflow, Keras, Seaborn, Neural Networks, and Google Collab.
- Trained neural network against a dataset of 100,000 archived images from compiled research to improve model accuracy.

Johns Hopkins BMEI, Baltimore, United States *Sept 2020 - Jan 2021*
- Modeled systems using engineering principles to solve biological, physiological, and/or medical design problems over a six-week period.

WORK EXPERIENCE jasdeepahluwalia.com/work

Michelin ddi.michelin.com *May 2023 - Present*
- Played a pivotal development role in Michelin's transition to a data-driven operations approach. **Software Engineer Intern - AI/ML**
- Utilized Python, SQL, Java, PySpark, and Spring Boot to construct analysis of datasets of tire performance & manufacturing statistics.
- Implemented scalable automated data pipelines on AWS and Azure cloud platforms and databases, enabling real-time data analytics.
- Integrated a GPT-3 Machine Learning model so employees can search data lakes via queries using Natural Language Processing(NLP).
- Designed lean proof of concepts (POC) & participated in daily stand-ups, backlogs, and two-week sprints to back team decisions.

Sellerchain Inc. beta.sellerchain.com, smp-design-branch-dev.azurewebsites.net *Jun 2022 - Present*
- Led the fullstack development on an Angular .NET core app using Javascript, HTML, and CSS. **Software Engineering Intern**
- Worked with various AWS REST APIs to integrate cloud-based functionalities to create solutions for high-volume Amazon sellers.
- Leveraged data management techniques and database solutions, such as MongoDB and SQL, to efficiently handle client big data.
- Worked with cross-functional teams showcasing adaptability, teamwork, and problem-solving skills in an agile development environment.
CEO Recommendation: jasdeepahluwalia.com/files/sellerchain_recommendation

Proxyfarm proxy-farm.com *Jan 2021 - Aug 2021*
User Success: twitter.com/proxyfarm **Lead Developer**
- Constructed and designed a premium proxy service through international IP acquisition and self-taught network development.
- Utilized MongoDB to efficiently manage high-volume, low-cost orders.
- Developed a user dashboard and online storefront with React Redux and Stripe.
- Configured and implemented automation for Squid proxy servers: IP masking, IP forwarding, Traffic Filtering, User:Pass authentication, Stored Server Logs, and maintained a pool of multiple thousands of IPs.

PROJECTS jasdeepahluwalia.com/projects

PlatePlanner - Meal Plan Generator plateplanner.org *May 2023*
- Developed a meal plan generator that personalizes meal plans based on user food preferences and schedule.
- Integrated multiple APIs to access recipe and nutrition databases, implementing caching to optimize load times and reduce API calls.
- Engineered a RESTful backend server & relational database using Django and MySQL, enabling users to log in and store favorited meals.
- Utilized a modern tech stack including JavaScript, React, Python, SQL, HTML, CSS, Git, and Redux to create a user-friendly experience.

Hash Automation - AI Crypto Trading Demo: youtube.com/watch?v=v_RfGE2vPys *Jan 2022 - May 2022*
- Designed and implemented AI algorithms that optimize the minting process in an Ethereum & Solana NFT bot.
- Employed machine learning techniques to continuously improve the bot's decision-making and adaptability.
- Integrated AWS S3 and a fully on-chain authentication system to secure user data across Mac, Windows, and Linux.
- Crafted an aesthetic and intuitive frontend using React and TailwindCSS.
- Led a successful alpha period with over 50 users.

Technical Skills

Core Skills:	Python, SQL, Java, JavaScript, Git, Unix / Linux, Databases, Rust, Golang, OCaml, Ruby, and C
Backend:	MySQL, MariaDB, MongoDB, .NET, Express, Flask
Frontend:	React, Angular, Tailwind CSS, Material Design/UI, SCSS, Figma
Certifications:	AWS Certified Cloud Practitioner