



JASDEEP AHLUWALIA

 [linkedin.com/in/jasdeep-ahluwalia](https://www.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), Object Oriented 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 Learning, Algorithms, Optimization, Data-Driven Web Applications.

BigTh!nkAI Artificial Intelligence Club jasdeepahluwalia.com/files/notebooks/co2_emission

- 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 Colab.
- Trained neural network against a dataset of 100,000 archived images from compiled research to improve model accuracy.

Johns Hopkins University, Baltimore, Biomedical Engineering

Sept 2020 - Jan 2021

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 Engineering Intern - AI/ML**
- Utilized Python, SQL, Java, PySpark, and Spring Boot to construct & display analysis of tire sales; used daily by Michelin tire retailers.
- Helped enable real-time data analytics for the Business Analytics Dept. by developing data pipelines on AWS & Azure cloud databases.
- Prototyped an NLP Machine Learning model (GPT - 3.5) so employees can search data lakes via English instead of needing to know SQL, changing the way 1000's of employees across multiple departments retrieve Michelin data.
- Developed end-to-end tests for a Python-based tire sales analysis tool, resulting in a 15% reduction in bugs and increased user satisfaction.

Sellerchain Inc. beta.sellerchain.com, smp-design-branch-dev.azurewebsites.net

Jun 2022 - Present

- Led the development on an Angular .NET Amazon Seller app using Javascript, HTML, and CSS. **Software Engineering Intern**
- Utilized AWS REST APIs to integrate cloud functionalities into a real-time shipment tracking dashboard, saving clients \$1000+ monthly.
- Developed a dashboard using MongoDB and SQL to handle client big data sets like accounts, saving 20 hours of manual labor per week.
- Worked with cross-functional teams showing problem-solving, collaboration, and communication skills in an agile development setting.

CEO Recommendation: jasdeepahluwalia.com/files/sellerchain_recommendation

Proxyfarm proxy-farm.com

Jan 2021 - Aug 2021

User Success: twitter.com/proxyfarm

Lead Developer

- Implemented self-taught network development to construct a premium proxy service, resulting in over 100 monthly active users.
- Managed high-volume, low-cost orders using a MongoDB database, organizing user accounts & optimizing order processing time by 50%.
- Developed a user dashboard, employee dashboard, and online storefront with React, Redux, and Stripe.
- Configured Squid proxy servers to enable IP masking, IP forwarding, traffic filtering, and user authentication with a pool of 10,000+ IPs.
- Maintained high security using detailed records & server logs, identifying potential risks early on while helping resolve issues proactively.

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 NFT Bot Demo: youtube.com/watch?v=v_RfGE2vPys

Jan 2022 - May 2022

- Developed and launched an Ethereum NFT bot that employs deep learning models (RNNs) to predict if you should cancel your transaction, saving users multiple 1000's of dollars everyday in NFT releases.
- Utilized Apache Spark to process real-time transactions in parallel, significantly improving the overall speed of monitoring by over 100%.
- Integrated AWS S3 and an on-chain authentication system, resulting in no security breaches during the alpha period with over 50 users.
- Leveraged React, Electron, and TailwindCSS to develop a desktop app that is Mac, Windows, and Linux compatible.

Technical Skills

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